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JUL 02 SCISBAKCH enhanced with complete author names

JUL 02 CISBAKCH enhanced with complete author names

JUL 02 CISBAKCH enhanced with utility model patents from China

Compared to Caplus enhanced with utility model patents from China

JUL 18 CA/Caplus patent coverage enhanced

JUL 19 CSA/Caplus patent coverage enhanced

JUL 30 USPATPULL/USPAT2 enhanced with IPC reclassification

JUL 30 USPATPULL/USPAT2 enhanced with IPC reclassification

JUL 30 USPATPULL/USPAT2 enhanced with new experimental property tags

AUG 06 CSA RESISTRY enhanced with new compounds

AUG 06 SEILSTEIN updated with new Compounds

PSTA enhanced with new thesaurus edition

CA/Caplus enhanced with additional kind codes for granted patents NEWS 10 CA/CAplus enhanced with additional kind codes for granted patents:
CA/CAplus enhanced with CAS indexing in pre-1907 records Pull-text patent databases enhanced with predefined patent family display formats from INPADOCDS USPATOLD now available on STN CAS REDISTRY enhanced with additional experimental spectral property data STN Anavisu. Version 2.0, now available with Derwent World Patents Index PORIS renamed to SOFIS INPADOCDS enhanced with monthly SDI frequency CA/CAplus enhanced with printed CA page images from 1967-1998 CAPlus coverage extended to include traditional medicine patents SEP 07 NEWS 18 NEWS 22 SEP 17

NEWS EXPRESS 05 SEPTEMBER 2007: CURRENT WINDOMS VERSION IS V8.2,
LURENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
AND CURRENT DISCOVER FILE IS DATED 05 SEPTEMBER 2007.

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<12/04/2007>

Erich Leese

G1 C.H.Ak

G2 X.Ak.CF2.CF3

G3 X.CN

G4 C.O. Ak, CF3, X

GS X.Me, CH2, CH, Et

Structure attributes must be viewed using STN Express query preparation.

-> s 11 full
PULL SEARCH INITIATED 15:48:01 FILE 'REGISTRY'
PULL SCREEN SEARCH COMPLETED - 8971 TO ITERATE

O SEA SSS PUL L1

100.0% PROCESSED 8971 ITERATIONS SEARCH TIME: 00.00.01

0 ANSWERS

-> file reg COST IN U.S. DOLLARS

FULL ESTIMATED COST

<12/04/2007>

SINCE FILE TOTAL

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FILE 'REGISTRY' ENTERED AT 16:01:11 ON 18 SEP 2007 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT. PLRASE SEE "HELP USAGETERMS" FOR DETAILS. COPYRIGHT (C) 2007 American Chemical Society (ACS)

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STRUCTURE FILE UPDATES: 17 SEP 2007 HIGHEST RN 947369-26-8
DICTIONARY FILE UPDATES: 17 SEP 2007 HIGHEST RN 947369-26-8

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TSCA INFORMATION NOW CURRENT THROUGH June 29, 2007

10/513699

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FULL ESTIMATED COST

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STRUCTURE FILE UPDATES: 17 SEP 2007 HIGHEST RN 947369-26-8
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http://www.cas.org/support/stngen/stndoc/properties.html

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01 C.H.A

G2 X.Ak.CF2.CF3

G3 X,CN

G4 C,O,Ak,CF3,X

G5 X, Me, CH2, CH, Et

Structure attributes must be viewed using STN Express query preparation.

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PULL SEARCH INITIATED 16:01:40 FILE 'REGISTRY'
PULL SCREEN SEARCH COMPLETED - 416 TO ITERATE

100.0% PROCESSED 416 ITERATIONS SEARCH TIME: 00.00.01

4 ANSWERS

<12/04/2007>

4 SEA SSS FUL LE

=> file caplus COST IN U.S. DOLLARS

SINCE FILE FULL ESTIMATED COST

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http://www.cas.org/infopolicy.html

-> s 14 full L5 1 L4

L5 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2007 ACS ON STN ACCESSION NUMBER: 2005:158653 CAPLUS DOCUMENT NUMBER: 142:261560

142;261560
Preparation of N-phenyl-piperazine derivatives and methods of prophylaxis or treatment of 5-HT2C receptor associated diseases
Smith, Brian; Tsai, James; Chen, Rita Arena Pharmaceuticals, Inc., USA PCT. Appl., 115 pp. CODEN; PIXXD2 Patent English 1 PATENT ASSIGNEE(S): SOURCE:

DOCUMENT TYPE:

PAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE WO 2005016902 A1 C W. AE, AG, AL, AM, AT, CN, CO, CR, CU, CZ, GE, GH, GM, HR, HU, LK, LR, LS, LT, LU, HO, NZ, OM, PG, PH, MO 2004-US19540 20040617 BB, BG, BR, BM, BY, BZ, CA, CH, DZ, EC, EE, EG, ES, FI, OB, GD, IS, JP, KE, KG, KP, KR, KZ, LC, MG, MK, MN, MM, MX, MZ, NA, NI, RU, SC, SD, SE, SG, SK, SL, SL 20050224 20050224 V AU, AZ, BA, DE, DK, DM, ID, IL, IN, LV, MA, MD, PL, PT, RO,

<12/04/2007>

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4-(tert-butoxycarbonyl)-(R)-2-methylpiperazine. Intracellular IP3
accumulation assay (8C50 = 8.0 nM against the 5-HT2C receptor) and
inhibition of food intake in food-deprived rats (see chart) were used to
test the bioactivity of 11. Certain compds. are selective for the 5-HT2C
receptor compared to the 5-HT2A and 5-HT2B receptors; for example 11 has
an EC50 value of \$29 nM against the 5-HT2A receptor and is essentially
inactive against the -5HT2B receptor. 1 are useful for the prophylaxis or
treatment of 5-HT2C receptor associated diseases or disorders, such as,
obesity, Alzheiner Disease, erectile dysfunction and related disorders.
845741-28-89, (R)-1-(4-Fluorobiphenyl-3-yl)-2-methylpiperazine
hydrochloride 845741-29-9P, (8)-1-(4-Fluorobiphenyl-3-yl)-2-methylpiperazine
hydrochloride 845741-29-9P, (8)-1-(4-Fluorobiphenyl-3-yl)-2-methylpiperazine
RS-PAC (Pharmacological activity), SPN (Synthetic preparation); THU
(Therapeutei usel, BTOL (Bilological study), PREP (Preparation), USES
(Usen)
(drug candidate, preparation of N-phenylpiperazines as S-HTC receptor
modulators)
845741-28-8 CAPLUS

modulacors)
845741-28-8 CAPLUS
Piperazine, 1-(4-fluoro[1,1'-biphenyl]-3-yl)-2-methyl-, hydrochloride,
(ZR)- (9C) (CA INDEX NAME)

Absolute Stereochemistry.

•x HC1

45741-29-9 CAPLUS Piperazine, 1-(4-fluoro[1,1'-biphenyl]-3-yl)-2-methyl-, hydrochloride, (2S)- (9CI) (CA INDEX NAME)

bsolute stereochemistry.

● x HC1

TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, RN: BM, OH, OM, KE, LS, MM, MZ, NA, SD, SL, SZ, TZ, UG, ZM, AZ, SY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, EZ, ES, FI, FR, GB, GK, HU, IE, IT, UJ, MC, ML, PL, FT, SN, TN, BP, BJ, CP, CG, CI, CM, GA, GN, GQ, GM, ML, SN, TD, TG P 20030620 W 20040617 WO 2004-US19540 CASREACT 142:261560; MARPAT 142:261560 OTHER SOURCE(S):

Title compds. I [wherein R1 = H, alkyl; R2 = alk(en)yl, haloalkyl; R3, R4, R5, R6, R7 = independently H, acyl, acylcxy, acylthioxy, alk(en)yl, halo/carbo/alkoxy, alkylcarboxamido, halo, OH, SH, Ph, halo/alkylsulfinyl, alkylsulfonamido, halo/alkylsulfonyl, halo/alkylthio, NH2, di/alkylamino. CN, haloalkyl; and their pharmaceuticnly acceptable salts, solvates or hydrates; with the provise that certain compds. are excluded were prepared as 5-HT2 receptor modulators, in particular agonists. Thus, IT=HC1 was prepared by Pd-coupling of 2-Bromo-4-chloro-1-fluorobenzene with

<12/04/2007>

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845742-44-1 CAPLUS Piperazine, 1-(4-fluoro[1,1'-biphenyl]-3-yl)-2-methyl-, [2R]- (9CI) (CA INDEX NAME)

845742-45-2 CAPLUS Piperaxine, 1-(4-fluoro[1,1'-biphenyl]-J-yl)-2-methyl-, (28)- (9CI) (CA HDDEN NAME)

Absolute stereochemistry.

REFERENCE COUNT:

<12/04/2007>

THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

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STRUCTURE UPLOADED

-> d 16 16 HAS NO ANSWERS L6

· STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT ·

Structure attributes must be viewed using STN Express query preparation.

-> 8 16 full
FULL SEARCH INITIATED 16:08:30 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 602595 TO ITERATE

100.0% PROCESSED 602595 ITERATIONS SEARCH TIME: 00.00.05

1347 ANSWERS

1347 SEA SSS PUL L6

-> file caplus COST IN U.S. DOLLARS	SINCE PILĖ ENTRY	TOTAL
FULL ESTIMATED COST	172.10	536,38
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
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US 1999-362837 US 2000-627886 US 2001-989086 WO 2002-US36953 US 1998-10320 AU 2002-352772 US 2004-487168 A2 19990728 B2 20000728 B2 20011121 W 20021113 B2 19980121 A3 20021113 A1 20041007

OTHER SOURCE(S):

MARPAT 142:355256

$$z = \bigvee_{n=1}^{\infty} \sum_{n=1}^{\infty} \sum_{n=1}^{\infty}$$

Therapeutically effective compds. I [Z = (un)substituted heterocyclic ring fused to one or more carbocyclic aromatic rings; n = 1-4, M = NR2, CR1R2, R1 = H, OH, N3, etc., R2 = OH, Aalo, acyl, aryl, etc., R70, R71 = H, OH, N3, etc., R2 = OH, Aalo, acyl, aryl, etc., R70, R71 = H, OH, N3, etc., R72, R73 = O, N2, halo, etc., and II [Z, n are defined as above; R2 = OH, halo, acyl, aryl, etc.] were prepared for treatment of diseases associated with aberrant leukocyte recruitment and/or activation (no data). I and II displayed chemokine binding activities with ICSO values ranging from < 1 µM to < 1000 µM. Thus, the [((I)benzoxepinol2,3-b)pyridinylidene)propyllpiperidinol III was prepared in three steps by reaction of 5,11-dihydro-7-methoxy[1]benzoxepinol2,3-b)pyridin-5-one with cyclopropylnagnesium bromide in THP, followed by ring cleavage-dehydration-bromination with IBDr, Major and minor isomers were separated The pharmaceutical compns. comprising the compound I or II is disclosed. 849105-37-3P 849105-74-4P 849105-75-5P 849105-85-7P 849105-86-8P 849105-79-PP RL: PAC (Pharmacological activity), SPM (Synthetic preparation); THU (Therapeutic use): BIOL (Biological study), PREP (Preparation); USES (Uses)

(preparation of tricyclic piperidinols and pyrrolidines as chemokine receptor antagonists for treatment of diseases associated with aberrant leukocyte recruitment and activation)

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L9 ANSWER 1 OF 134 CAPLUS COPYRIGHT 2007 AC8 on STN
ACCESSION NUMBER:
DOCUMENT NUMBER:
TITLE:

INVENTOR(S):

INVENTOR(S):

APATEMET ASSIGNEE(S):
SOURCE:
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DOCUMENT TYPE:
LANGUAGE:
PAMILY ACC. NUM. COUNT:
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DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

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<12/04/2007>

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2-Piperazinecarboxamide, 1-(4-chloropheny1)-4-[3-[7-(1-hydroxy-1-methylethyl) (1) benzoxepino[3,4-b] pyridin-5(11H)-ylidene] propyl]- (9CI) (CA INDEX MAME)

849105-74-4 CAPLUS
2-Piperarinecarbonitrile, 1-(4-chlorophenyl)-4-[3-[7-(1-hydroxy-1-methylethyl) [1]benzoxepino[3,4-b)pyridin-5(11H)-ylidenelpropyl)- (9CI) (CA INDEX NAME)

849105-75-5 CAPLUS
2-Piperazinecarboxylic acid, 1-(4-chlorophenyl)-4-(3-[7-(1-hydroxy-1-methylethyl)(1)benzoxepino[3,4-b)pyridin-5(11H)-ylidene)propyll-, methyl ester (9CI) (CA INDEX NAME)

849105-85-7 CAPLUS (1]Benzoxepin(G),4-b]pyridine-7-methanol, 5-[3-{(35)-4-(4-chlorophenyl)-3-methyl-1-piperazinyl]propylidene]-5,11-dihydro-u,u-dimethyl-(9C1) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.

849105-86-8 CAPLUS [1] Benzoxepino[3,4-b] pyridine-7-methanol, 5-{3-[(3R)-4-(4-chlorophenyl)-3-methyl-1-piperaziny}] propylidene]-5,11-dihydro- α , α -dimethyl-

<12/04/2007>

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(preparation of tricyclic piperidinols and pyrrolidines as chemokine receptor antagonists for treatment of diseases associated with aberrant leukocyte recruitment and activation)
55117-80-1 CAPUS
Piperazine, 1-(4-chlorophenyl)-2-methyl(9CI) (CA INDEX NAME)

849106-48-5 CAPLUS
1-Piperazinecarboxylic acid, 4-(4-chlorophenyl)-3-methyl-,
1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

849106-90-7 CAPLUS 1,3-Piperazinedicarboxylic acid, 4-(4-chlorophenyl)-, 1-(1,1-dimethylethyl) 3-methyl ester (9CI) (CA INDEX NAME)

849106-91-8 CAPLUS 2-Piperazinecarboxylic acid, 1-(4-chlorophenyl)-, methyl ester (9CI) (CA INDEX NAME)

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(9CI) (CA INDEX NAME)

849105-87-9 CAPLUS
2-Piperazineacetic acid, 1-(4-chlorophenyl)-4-(3-[7-(1-hydroxy-1-methylethyl)[1]benzoxepino[3,4-b]pyridin-5(1]H)-ylidene]propyl]-, methyl ester (9CI) (CA INDEX NAME)

55117-80-1P, 1-(4-Chlorophenyl)-2-methylpiperazine 849106-48-5P, 4-(4-Chlorophenyl)-3-methylpiperazine-1-carboxylic acid tert-butyl earer 849106-90-PP 849106-91-8P 849107-16-0P 849107-17-1P 849107-18-2P RL: RCT (Reactant) SPM (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

<12/04/2007>

Erich Leese

10/513699

849107-16-0 CAPLUS 1-Piperazinecarboxylic acid, 4-(4-chlorophenyl)-3-methyl-, 1.1-dimethylethyl ester, (38)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

849107-17-1 CAPLUS 1-Piperazinecarboxylic acid, 4-(4-chlorophenyl)-3-methyl-, 1,1-dimethylethyl ester, (3R)- (9CI) (CA INDEX NAME)

849107-18-2 CAPLUS
2-Piperazineacetic acid, 1-(4-chlorophenyl)-4-|(1,1-dimethylethoxy)carbonyl)-, methyl ester (9CI) (CA INDEX NAME)

THERE ARE 151 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE REFORMAT

L9 ANSHER 2 OF 134 CAPLUS COPYRIGHT 2007 ACS ON STN ACCESSION NUMBER: 2004:485162 CAPLUS DOCUMENT NUMBER: 141:38534

TITLE:

INVENTOR (S):

LVU :485162 CAPLUS
141:38514
Preparation of aromatic sulione hydroxamic acid metalloprotease inhibitors
Barta, Thomas E., Becker, Daniel P., Bedell, Louis J., Bochm, Terri L., Carroll, Jeffrey N., Decrescenzo, Gary A., Fobian, Yvette M., Preskos, John N., Getman, Daniel P., McDonald, Joseph J., Li, Madeleine H.; McOckerman, Susan L., Kolodziej, Steve A., Miachke, Deborah A., Rico, Joseph G., Stehle, Nathan W., Tollefson, Michael B.; Vernier, William F., Villamil, Clara I., Pharmacia Corporation, USA
U.S., 403 pp., Cont.-in-part of U.S. Ser. No. 311,837.
CODEN: USXXAM
Patent

PATENT ASSIGNEE(S): SOURCE:

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

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US	6750	228			B1		2004	0615		US 2	000-	5707	31		2	00009	512	
US	2001	0146	88		A1		2001	0816		US 1	998-	1911:	29		11	9981	113	<
US	2001	0392	87		A1		2001	1108		US 1	999-	2569	48		1	9990:	224	<
CA	2372	934			A1		2000	1123		CA 2	000-	2372	934		2	0000	515	<
WO	2000	0698	21		A1		2000	1123		WO 2	000-	US67	19		2	0000	515	<
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<12/04/2007>

Brich Leese

IТ

CHICH. C.tplbond.c, N:N, NiNH, NHCOO, (un) substituted CONN, NHCO, etc., R - alkylene, arylene, heteroarylene, etc., with provisor, E - bond, CONN, NHCO, CO., SO2, NHSO2, SO2NN, S, etc., Y2 - absent, K, alkyl, alkoxy, aryl, aryloxy, heteroaryl, etc.) to a host having a condition associated with pathol. matrix metalloprotease (MMP) activity. I exhibit excellent inhibitory activity of one or more MMP enzymes, such as MMP-2, MMP-9 and MMP-11, while exhibiting substantially less inhibition of (at least) MMP-1 (biol.) data given). Also disclosed are metalloprotease inhibitor compds. having such selective activities, processes for manufacture of such compds, and pharmaceutical compsus using such inhibitors. The compds, are potentially useful against a wide variety of conditions, notably as antiosteoarthritic, antiangiogenesis, and antitumor agents. Over 900 example compds. are listed, most with supporting phys, data, and many with synthetic details. E.g., a multi-step synthesis of the compound II.2HCl was given.

IT

REPERENCE COUNT:

<12/04/2007>

THERE ARE 54 CITED REFERENCES AVAILABLE FOR THIS

Erich Leese

10/513699

HU 200201680 BR 2000010562 JP 2003520196 AU 766792 NZ 515217 US 2002177588 20020928 20030610 20030702 20031023 20040430 20000515 <--20000515 20000515 20000515 HU 2002-1680 BR 2000-10562 JP 2000-618238 AU 2000-47970 NZ 2000-515217 US 2001-954451 20000515 20010917 <--20021128 US 2002177568
US 6750233
ZA 2001009006
NO 2001005543
MX 2001PA11569
US 2003073718
US 6683093
US 2004209914
US 2004235818
PRIORITY APPLN. INFO.: 20021128 20040615 20021202 20020110 20050620 20030417 20040127 20041021 20041125 20011031 <--20011113 <--20011113 20011121 ZA 2001-9006 US 2003-73040]
US 2003-73040]
US 2003-747786
US 1997-56007
US 1998-95347P
US 1998-1010809
US 1999-311037
US 1998-95501P
US 1998-186410
US 1998-186410
US 1998-180410
US 2000-570731
US 2001-989943 20031208 20031229 19971114 19980804 19980918 19990224 19990514 19980806 19981105 B2 19981113 A 20000512 H 20000515 A3 20011121

MARPAT 141:38534

A treatment process is disclosed that comprises administering an effective amount of an aromatic sulfone hydroxamic acid I [N=H, cation, certain acyl or thioacyl groups, m, n, p=0-2r, (m+nrp)=1 to 4r, Z=(un) substituted NH/r X, Y = (un) substituted NH/r COO, OCO,

ΙI

<12/04/2007

10/513699

RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

ACCESSION NUMBER: DOCUMENT NUMBER: TITLE:

ANSWER 3 OF 134 CAPLUS COPYRIGHT 2007 ACS on STN
SSION NUMBER: 2003:55184 CAPLUS
140:195578
E: Customization of a commercially available prepare scale
SFC system to provide enhanced capabilities
OR(S): Olson, Jeff, Pan, Jeff, Hochlowski, Jill; Searle,
Philip, Blanchard, Dave
ORATE SOURCE: Abbot Laboratories, 1L, USA
JALA (2002), 7(4), 69-74
CCE: JALDOCEN, JALDOC, ISSN: 1535-5535
MEMORY TYPE: Association for Laboratory Automation

AUTHOR (S):

CORPORATE SOURCE: SOURCE:

PUBLISHER: DOCUMENT TYPE: LANGUAGE: AB Preparati

ASSOCIATION TYPE: Journal
AGGE: English
Preparative Scale Supercrit. Fluid Chromatog. is emerging as a powerful
alternative to HPLC for the purification and separation of complex chemical

alternative to HPLC for the purification and separation of complex chemical tion mixts. Advantages include greatly reduced solvent usage (and thus lower cost and environmental impact), higher throughput, and in some cases higher resolution While there are com. available prepare BPC instruments, none currently offer all the features desired by many medicinal chemists engaged in the drug discovery process. These include: the ability to collect an unlimited number of fractions per sample with high recovery and negligible carryover, fully automated capacity to collect several hundred fractions, and the ability to collect fractions into the same disposable test tubes and racks which are already employed in HPLC. This article describes the customization of a preparatory seale BPC system purchased from Berger Instruments, Inc., Newark, DE. (a subsidiary Mettler-Toledo International, Inc., of Greifensee, Switzerland) in order to provide these capabilities.

19947-11-6P, 1-(4-Methylphenyl)-2-methylpiperazine
RIL ANT (Analyte), PUR (Purification or recovery), ANST (Analytical Study), PREP (Preparation)
(customization of a com, available prepare scale supercrit. fluid

IT

study), PREP (Preparation)
(Customization of a com. available prepare scale supercrit. fluid
chromatog. (SPC) system to provide enhanced capabilities)
35947-11-6 CAPLUS
Piperazine, 2-methyl-1-(4-methylphenyl)- (CA INDEX NAME)

<12/04/2007>

THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE PORMAT REPERENCE COUNT.

Erich Leese

L9 ANSWER 4 OF 134 CAPLUS COPYRIGHT 2007 ACS ON STN ACCESSION NUMBER: 2002:946267 CAPLUS

10/513699

138:24727
Preparation of 2-{{piperazinocarbonylmethyl}aminocarbo nyllquinolines as platelet adenosine diphosphate receptor antagonists Bryant, Judi A., Buckman, Brad O., Islam, Imadul, Mohan, Raju Morrissey, Michael M., Wei, Guo Pin, Xu, Wei; Yuang, Shendong Schering Aktiengesellschaft, Germany PCT Int. Appl., 208 pp. CODEN: PIXXD2
Patent English
1 TITLE

INVENTOR (S):

PATENT ASSIGNEE(S): SOURCE:

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

ATENT	INFOR	MATI	DN:															
PA	TENT	NO.			KIN	9	DATE			APPL	ICAT	ION :	NO,		D	ATE		
						-									-			
wo	2002	0988	56		A2		2002	1212		WO 2	002-1	US17	821		2	0020	606 <	
WO	2002	0988	56		A3		2004	0304										
	W:	AE.	AG.	AL.	AM,	AT.	AU,	AZ,	BA,	BB,	BC,	BR,	BY,	BZ,	CA,	CH,	CN,	
		CO.	CR,	CU,	cz,	DE,	DK,	DM,	DZ,	EC,	EE,	ES,	FI,	GB,	GD,	GE,	GH,	
		GM,	HR,	HU,	ID,	IL.	IN,	15,	JP,	KΣ,	KG,	KP,	KR,	KZ,	LC,	LK,	LR,	
		LS.	LT.	LU,	LV.	MA.	MD,	MG,	MK,	MN,	MW,	MX,	MZ,	NO,	NZ,	OM,	PH,	
		PL.	PT,	RO,	RU,	SD,	SE.	SG,	SI,	sĸ,	SL,	TJ,	TM,	TN,	TR,	TT,	TZ,	
		UA,	UG,	US,	UZ.	VN,	YU,	ZA,	ZM,	ZW								
	RW;	GH,	GM,	KE,	LS,	MW,	MZ,	SD,	SL,	SZ,	TZ,	UG,	ZM,	ZW,	AM,	AZ,	BY,	
		KG.	KZ,	MD,	RU,	TJ,	TM,	AT,	BE,	CH,	CY,	DE,	DK,	ES,	FI,	PR,	GB,	
		GR.	IE,	IT,	LU,	MC,	NL,	PT,	SE,	TR,	BF,	BJ,	CF,	CG,	CI,	CM,	GA,	
		GN.	GO.	GW,	ML.	MR.	NE.	SN,	TD.	TG						•		
US	2003	0604	74		A1		2003	0327		US 2	002-	1637	62		2	0020	605	
US	6861	424			B2		2005	0301										
AU	2002	31619	91		A1		2002	1216		AU 2	002-	3161	91		2	0020	606 <	
	1412																	
	R:	AT.	BE.	CH.	DE.	DK.	ES.	FR.	GB.	GR.	IT.	LI.	LU.	NL.	SE,	MC,	PT.	
											TR							
JP	2004	5328	B 6		т		2004	1028		JP 2	003-	50184	15		2	0020	606	
	2005																	
US	7026	323			B2		2006	0411										
US	2005	0651	63		A1		2005	0324		ŲS 2	004-	9476	3 5		2	0040	922	
	6995																	
US	2006	1355	32		A1		2006	0622		US 2	006-	3477	58		2	0060	202 '	
US	7176	207			B2		2007	0213										
RIORIT	Y APP	LN.	INPO	. :						US 2	001-	2964	982		P 2	0010	606	
		-									002-							
										WO 2	002-	JS17	921	- 1	W 2	0020	606	
											004-				A3 2			

MARPAT 138:24727

<12/04/2007>

OTHER SOURCE(S);

Erich Leese

By employing yeast enzymes, natural amino acids and Jacobsen's catalyst as sources of chirality, pyrazolo[1,5-a]pyridine derivs, with central and planar chirality were prepared as analogs of the dopamine D4 receptor ligand PADC 113. In vitro binding expts, displayed enhanced D2 and D1 affinity for both enantlomers of the [2,2]paracyclophane derivative The C-methylpiperazine (8)-1 revealed excellent D4 selectivity.
511255-13-3P 511255-27-9P

511255-13-3P 511255-27-9P
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); BIOL
(Biological study); PREP (Preparation)
 (preparation and activity of analogs of the dopamine D4 receptor ligand FAUC
113 with planar and central chirality)
511255-13-3 CAPLUS
Pyrazolol1,5-alpyridine, 3-[[(3S)-4-(4-chlorophenyl)-3-methyl-1piperazinyl]methyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).

S11255-27-9 CAPLUS
Pyrazolo(1,5-a|pyridine, 3-[|(3R)-4-(4-chlorophenyl)-3-methyl-1piperarinyllmethyll- (9Cl) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

511254-97-0P 511255-00-8P 511255-18-8P 511255-22-4P RE. RCT (Reactant), SPN (Synthetic preparation), PREP (Preparation), RACT (Reactant or reagent) (Preparation and activity of analogs of the dopamine D4 receptor ligand PAUC

Erich Leese

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The title compds. [I, a, b = 1-4, A = CH, N, Rl = H, alkyl, aryl, etc.; R2 = H. alkyl, aryl, etc.; R3 = H, alkyl, OH, etc.; R4 = H, alkyl, alkoxy, etc.; R5 = H, alkyl, hydroxyalkyl, etc.; R6 = H, alkyl, alkoxycarboxylalkyl, useful as inhibitors of platelet aggregation and thrombus formation, were prepared and formulated. Thus, amidation of 7-methyl-4-hydroxy-2-carboxyquinoline with 4-ethoxycarboxyl-1-[1-amino-3-(1,1-dimethylethoxycarboxyl)propyl]carboxylp iperazine (preparation of both reactants given) afforded 64% I [R1 = COZET, R2 = tert-BuOCCCH2CH2; R3 = OH, R4 = 7-Me; R5 = H, R6 = NHCO, A = N). The compds. I demonstrated their ability to inhibit the binding of [33P]-2-methylthio-ADP binding to the human platelet ADP receptor and the rat platelet ADP receptor.

478004-45-4P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); SIGL (Biological study); PREP (Preparation); USES (Usea)

(Uses)
(preparation of 2-[(piperszinocarbonylmethyl)aminocarbonyl]quinolines as platelet ADP receptor antagonists)
47804-45-4 CAPLUS
1-Piperszinepentanoic acid, 4-(3-chlorophenyl)-y-[[(4-methoxy-2-quinolinyl)carbonyl]amino]-3-methyl-8-oxo-, 1,1-dimethylethyl ester (9C1) (CA INDEX MAME)

L9 ANSWER 5 OF 134
ACCESSION NUMBER:
DOCUMENT NUMBER:
138:304237
Analogs of the dopamine D4 receptor ligand PAUC 113
with planar- and central-chirality
Lóber, Stefan, Ortner, Dirgit, Bettinetti, Laura,
Hubner, Harald, Omeiner, Peter
Emil Fischer Center, Department of Medicinal
Chemistry, Friedrich-Alexander University, Erlangen,
D-91052, Oermany
SOURCE:
PUBLISHER:
DOCUMENT TYPE:
LANGUAGE:
DOCUMENT TYPE:
LANGUAGE:
STEFAN COUNTY TYPE:
LANGUAGE:
CASREACT 138:304237

OTHER SOURCE(S):

<12/04/2007> Erich Leese

Absolute stereochemistry. Rotation (-).

113 with planar and central chirality)
51254-97-0 CAPLUS
Piperazine, 1-(4-chlorophenyl)-2-methyl-4-(phenylmethyl)-, (28)- (9CI)
(CA INDEX NAME)

S11255-00-8 CAPLUS
Piperazine, 1-(4-chlorophenyl)-2-methyl-, (28)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).

S11255-18-8 CAPLUS Piperazine, 1-(4-chlorophenyl)-2-methyl-4-(phenylmethyl)-, (2R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

RN 511255-22-4 CAPLUS CN Piperazine, 1-(4-chlorophenyl)-2-methyl-, (2R)- (9CI) (CA INDEX NAMB) Absolute stereochemistry. Rotation (+).

<12/04/2007> Erich Leese

<12/04/2007>

REPERENCE COUNT

THERE ARE 22 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

RECORD. ALL CITATIONS AVA
L9 ANSWER 6 OF 134 CAPLUS COPYRIGHT 2007 ACS ON STN
ACCESSION NUMBER: 2002:714060 CAPLUS
DOCUMENT NUMBER: 137:222677
TITLE: Preparation 137:212677
Preparation of heterocyclylphenyls for treatment of thromboembolic diseases and tumors
Mederski, Merner, Cezanne, Bertram, Dorsch, Dieter, Tsaklakidis, Christos, Gleitz, Johannes, Barnes, Christopher
Merck Patent Gmbh, Germany
Ger. Offen., 28 pp.
CODBN: GWXXBX

INVENTOR (S):

PATENT ASSIGNEE(S): SOURCE:

DOCUMENT TYPE

Patent German LANGUAGE:

COUNT:

FAMILY ACC. NUM. CO PATENT INFORMATION:

PATENT NO. DATE APPLICATION NO. DE 10112768 CA 2440954 WO 2002074765 W: AE, A HU 200303539 HU 20030539 CN 1496361 JP 2004527514 MX 2003PA08216 US 2004082563 ZA 2003008028 PRIORITY APPLH, INFO.: OTHER SOURCE(S) . MARPAT 137-232677

<12/04/2007>

Erich Leese

10/513699

459133-05-2 CAPLUS
1-Piperazinecarboxylic acid, 4-(3-cyanophenyl)-3-[[[4-(2-oxo-1-piperidinyl)phenyl]amino|carbonyl)-, 1,1-dimethylethyl ester (9CI) (CA

L9 ANSWER 7 OF 134 CAPLUS COPYRIGHT 2007 ACS ON STN ACCESSION NUMBER: 2002:469715 CAPLUS DOCUMENT NUMBER: 137:384813

Synthesis and antitumor activity of novel pyrimidinyl pyrazole derivatives. II. Optimization of the phenylpiperazine moiety of 1-15-methyl-1-12-pyrimidinyl)-4-pyrazolyl|-3-phenylpiperazinyl-1-transpropense.

AUTHOR (S) :

propenes Naito, Hiroyuki; Ohsuki, Satoru; Sugimori, Masamichi; Acsumi, Ryo: Minami, Megumi; Nakamura, Yoshihide; Ishii, Mineko; Hirotani, Yenji, Kumazawa, Elji; Ejima,

CORPORATE SOURCE:

Akio Medicinal Chemistry Research Laboratory, Dalichi Pharmaceutical Co., Ltd., Tokyo, 114-8610, Japan Chemical & Pharmaceutical Bulletin (2002), 50(4), 453-462 CODEN: CPBTAL, 189N, 0009-2163 Pharmaceutical Society of Japan

PUBLISHER: DOCUMENT TYPE:

DOCUMENT TYPE: Journal
LANDUAGE:
English
OTHER SOURCE(S):
English
OTHER SOURCE(S):
1-trans-propenes in order to improve the in vitro and in vivo activity of
our procotype 3- (4-(3-chlorophenyl)-1-piperazinyl)-1-[5-methyl-1-(2pyrimidinyl)-4-pyrazolyl]-1-trans-propene (1) were synthesized and
evaluated by assays of growth inhibition against several tumor cell lines
in vitro and antitumor activity against some tumor models when dosed both
i.p. and orally in vivo. The 3,5-difluorophenyl and 3,5-dichlorophenyl

10/513699

Title compds. [I; R1 = H. cyano. (substituted) C(:NII)NH2, CON(R3)2, [C(R4)2]nN(R3)2, etc.; R2, R5, R6 = H. halo, A. OR3, N(R3)2, NO2, cyano. [C(R4)2]nAr. [C(R4)2]nHet, [C(R4)2]ncycloalky1, etc.; R3 = H. A. (C(R4)2]nAr. [C(R4)2]nHet, [C(R4)2]ncycloalky1, etc.; R3 = H. A. (CR3)2]nHet, [C(R4)2]ncycloalky1, etc.; R4 = H. A.; W = N, CR3, EW = 3-7 membered (substituted) (saturated) (benzo-, heterocycly1-condensed) (heterolocycly1, x = (C(R4)2]ncoNR3[C(R4)2]n, (C(R4)2]nNR3CC[C(R4)2]n, etc.; Y = alkylene. cycloalkylene, heterocycly1diyl, aryldiyl; T = (substituted) (bi)heterocycly1, a - (branched) (o., 5-, CHI:CH-interrupted) (fluorinated) (c1-6 alkyl; Ar = (substituted) Ph. naphthyl, biphenyl; Het = (substituted) (c1-6 alkyl; Ar = (substituted) Ph. naphthyl, biphenyl; Het = (substituted) (c1-6 alkyl; Ar = (substituted) Ph. naphthyl, biphenyl; Pheriance of tactor Xa and VIIa (no data). Thus, a mixture of 4-(tert-butoxycarbonyl)-1-1-3-cone, N-(3-dimethylaminopropyl)-N-ethylcarbodilmide hydrochloride, and hydroxybenzotriazole hydrate in DMF was stirred with 4-methylmorpholime for 18 h at room temperature to give 4-(3-cyanophenyl)-3-(4-(2-oxop)peridin-1-yl)phenylcarbamoylphenyl-3-(4-carboxyl)e acid tert-Bu ester which was stirred with DMSO, X2CO3, and H2O2 in. MeOH for 2 h at room temperature to give (1-carboxyl)e acid tert-Bu ester. The latter was treated with HCl in dioxane for 1 h to give 1-(13-carboxylphenyl)-30-PF 459133-05-2P RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation), RACT (Reactant) sPN (Synthetic preparation); PREP (Preparation), RACT (Reactant) and the preparation of heterocyclylphenyls for treatment of thromboembolic diseases and tumors)

and tumors)
459132-99-1 CAPLUS
1,3-Piperazinedicarboxylic acid, 4-(3-cyanophenyl)-, 1-(1,1-dimethylethyl)
ester (9C1) (CA INDEX NAME)

459133-00-7 CAPLUS 2-Piperazinecarboxylic acid. 1-(3-cyanophenyl)-, monopotassium salt (9CI) (CA INDEX NAME)

<12/04/2007>

Erich Leese

analogs of I showed significantly more potent cytotoxicity than I in vitro and potent antitumor activities without causing decrease of body temperature related to side effects. 475653-33-9P

475633-33-9P RE: PAC (Pharmacological activity); SPN (Bynthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES

(Uses)
(Uses)
(Uses)
(upon a continuation of phenylpiperazine moiety of novel
pyrimidinyl pyrazole derivs. in relation to their antitumor activities)
47563-33-9 CAPLUS
Pyrimidine, 2-(4-(18)-3-(4-(3,5-difluorophenyl)-3-methyl-1-piperazinyl]-1propenyl1-5-methyl-1H-pyrazol-1-yl)-, monohydrochloride (9CI) (CA INDEX
NAME)

Double bond geometry as shown.

● HC1

475653-31-7P
RL: RCT (Reactant), SPN (Synthetic preparation), PREP (Preparation), RACT (Reactant or reagent)
(synthesis and optimization of phenylpiporazine molety of novel
pyrimidinyl pyrazole derivs. in relation to their antitumor activities)
475653-31-7 CAPLUS

Piperazine, 1-(3,5-difluorophenyl)-2-methyl- (9CI) (CA INDEX NAME)

REFERENCE COUNT:

THERE ARE 12 CITED REPERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

<12/04/2007>

L9 ANSWER 8 OF 134 CAPLUS COPYRIGHT 2007 ACS ON STN
ACCESSION NUMBER: 2002:293657 CAPLUS
DOCUMENT NUMBER: 136:1310655 .
TITLE: Preparation of substituted piperazine-condensed

morphinoid derivatives as selective &-opioid agonists and antagonists for treatment of conditions involving 8-opioid receptors Dondio, Giulio; Gagliardi, Stefania; Graziani, Davide; Raveglia, Luca Francesco Glaxosmithkline S.P.A., Italy PCT Int. Appl., 28 pp. CODEN; PIXXD2
Patent

INVENTOR (S):

PATENT ASSIGNEE(S):

DOCUMENT TYPE: LANGUAGE: . FAMILY ACC. NUM. COUNT: PATENT INFORMATION: Patent English

OTHER SOURCE(S):

<12/04/2007>

Erich Leese

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946-76-1 L. RCT (Reactant); RACT (Reactant or reagent) (preparation of substituted piperazine-condensed morphinoid derivs. As selective A-opioid agonists and antagonists) 946-76-1 CAPLUS hjernzine. 2-methyl-1-phenyl- (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME)

THERE ARE 2 CITED REPERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

Erich Leese

COPYRIGHT 2007 ACS on STN:142707 CAPLUS L9 ANSWER 9 OF 134 ACCESSION NUMBER: CAPLUS

2002:142707

DOCUMENT NUMBER:

2002:142797 CAPLUS
136:20018
Substituted and/or tweed pyrazoles, particularly
piperasinylpropyl-substituted pyrazolepyridines,
useful as cathepsin S inhibitors, and their
pharmaceutical compositions and use as
immunosuppressants
Breitenbucher, J. Guy; Cai, Hui; Edwards, James P.,
Grice, Cheryl A., Gustin, Darin J., Khatuya, Karipada,
Medina, Steven P., Pio, Barbara A., Tays, Kevin L.,
Wei, Jianmei
Ortho McNoil Pharmaceutical, Inc., USA
PCT Int. Appl., 161 pp.
Patent INVENTOR (S) :

PATENT ASSIGNEE(S): SOURCE:

DOCUMENT TYPE:

English

LANGUAGE; FAMILY ACC. NUM. CO PATENT INFORMATION: COUNT:

> APPLICATION NO. DATE WO 2001-US25289 20010810 <--WO 2002014314 WO 2002014314 20020221 A2 A3

10/513699

Substituted piperazine-condensed morphinoid derivs. I (R1 = H or alkyl, R2 = H or one or more alkyl groups, R3 is R or RX-, wherein R is H or optionally substituted alkyl, aryl, arylalkyl, cycloalkyl or heterocyclyl and X is a linking group, and R4 = H or alkyl, when R4 = Me and R3 = Me or hydroxyethyl then R2 is not H) were prepared as selective 6-opioid agonists and antagonists. Thus hydrocodeinone was treated with 3-oxo-2-(phenylhydrazono)butyric acid Rt ester to give II. II was converted to the acid chloride which reacted with 4-chlorophenylpiperazine HCl to give derivative I (R1 = R4 = Me, R2 = H, R3 = 4-clc6H4). The activity of the prepared compos. as selective 6-opioid receptor ligands was evaluated in radioligand binding assays using cloned human 8. µ and x opioid receptors expressed in HEK cells (no data). The most potent compds. showed affinities for the 5 receptor ranging from 0.3 to 10 nM with delta selectivity; ranging from 15 to 400 times in respect to the other opioid receptor types (no data).

The C (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Usee)

(preparation of substituted piperazine-condensed morphinoid deriva. as

(Uses)
(preparation of substituted piperazine-condensed morphinoid derivs, as selective 8-opioid agonists and antagonists)
409305-16-4 CAPLUS
Piperazine, 2-methyl-4-{[(4b8,8R,saR,12bR)-5,6,7,8,8a,9,12,12b-octahydro-1-methoxy-7,10-dimethyl-4,8-methanobenzofuro(3,2-e|pyrrolo[2,3-g]isoquinolin-11-yl)carbonyl)-1-phenyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

<12/04/2007>

Brich Leese

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CA, CH, CN,
GD, GB, GH,
LC, LK, LR,
NZ, PL, PT,
UA, UG, UZ,
                                                                                    MM, MZ, SD, SL, SZ, TZ, UO, ZM, AT, BB, CH, CY, FR, OB, OR, IE, IT, LU, MC, NL, FT, SE, TR, BF, CM, OA, GM, GO, GM, ML, MR, NE, SM, TD, TO 20020221 CA 2001-2419540 20010810 <-- 20020225 AU 2001-81255 20010810 <-- 20020404 US 2001-928122 20010810 <-- 20020404 US 2001-928122 20010810 <-- 20010814 EP 2001-959731 20010810
                                                                         EP 1309591
EP 1309591
EP 1309591
ER I. T. BE, CH, I
I. E. BI, LT. I
JP 2004512272
NZ 524193
BU 2266343
AT 352552
MX 2003PA01421
IN 2003N00189
ZA 2003002052
US 2007004755
US 2007004755
US 2007004718
US 2007001474
US 200701630
US 200701630
US 2007021437
PRIORITY APPLN. INFO.:
 OTHER SOURCE(S):
                                                                           MARPAT 136:200181
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. STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT .

Substituted pyrazoles I, methods of manufacturing them, compns. containing AB Substituted pyrazoles I, methods of manufacturing them, compns. containing them and methods of using them to treat, for example, autoimmune dimeases mediated by cathepsin S, are described [R1 = H, N3, halo, alkoxy, ON, alkyl, sikenyl, cyano, NO2. (un) substituted NN12, acyl, etc., R2 = H, halo, alkoxy, alkyl, alkenyl, haloalkyl, cyano, or (un) substituted NN2; or R1R2 = atoms to form (un) substituted (un) saturated (non) aromatic 5- to 7-membered carbo- or heterocyclic ring, R3, R4 = H, alkyl, R5, R6 = H, alkyl, alkoxy, alkylthio, halo, or 4- to 7-membered carbo- or heterocyclyl; or R5R6 = atoms to form (un) substituted (un) saturated (non) aromatic

5- to 7-membered carbo- or heterocyclic ring, n = 1 or 2,0 =

aromatid

5 - to 7-membered carbo- or heterocyclic ring; n = 1 or 2, 0 = (un) substituted C3-6 alkanedlyl or alkenedlyl (aubstituted E9, 6 alkanedlyl or alkenedlyl (aubstituted E9, 1 alkanedlyl or alkenedlyl (aubstituted CH; Ar = (un) substituted CH; Ar = (un) substituted CH; bond; or WRI: aloms to form a bencoasol-2-yl, benzothiazol-2-yl, benzimidasol-2-yl, 1,2-benzimoxasol-3-yl ring; including stereoisomers and pharmaceutically acceptable salts, esters, and

<12/04/2007>

amides]. Claimed usages include treatment of lupus, rheumatoid arthritis, and particularly asthma, and inhibition of tissue transplant rejection. Approx. 250 individual compds. I were prepared and/or claimed, with detailed prepns. given for 24 compds. For instance, 4-(2-chloro-6-methanesulfonylaminophenyl)piperazine-1-carboxylic acid tert-Bu ester (prepared in 4 steps) was deprotected with TPA and coupled with the corresponding epoxide (prepared in several steps) to give title compound II, a preferred compound II an assay for inhibition of recombinant human cathopsin S in vitro. II had an ICSo of 0.05 µM. Compound III was another of three specifically preferred compds. 400803-62-5P, 1-(3-(4-chlorophenyl)-1-(2-)ydroxy-3-(3-methyl-4-p-tolylpiperazin-1-yllpropyl]-1, 4,6.7-tetrahydropyrarolo(4,3-c)pyridin-5-yllethanone

y)|ethanone
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU
(Therapeutic use); BIOL (Biological study); PREP (Preparation); UBES
(UBes)
(drug candidate; preparation of piperazinylpropyl-substituted
pyrazolopyridines and analogs as cathepsin S inhibitors)
40809.62-5 CAPLUS
HH-Pyrazolo(4,3-c)pyridine-1-ethanol, 5-acetyl-3-(4-chlorophenyl)-4,5,6,7tetrahydro-u-[(3-methyl-4-(4-methylphenyl)-1-piperazinyl)methyl)(9C1) (CA INDEX NAME)

L9 ANSHER 10 OF 134 CAPLUS COPYRIGHT 2007 ACS ON STN ACCESSION NUMBER: 2002;71877 CAPLUS DOCUMENT NUMBER: 136:134783 136:134783
Preparation of piperazine(or piperidine)-1-carboxamides as CCR5 modulators
Bondinell, William E., Neeb, Michael J.
Smithkline Beecham Corporation, USA
PCT Int. Appl., 79 pp.
CODEN: PIXXD2
Patent
English
J

TITLE:

INVENTOR(S): PATENT ASSIGNEE(S): SOURCE:

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM, COUNT: PATENT INFORMATION:

APPLICATION NO. PATENT NO. KIND DATE DATE MO 2002005819 A1 20020124 W0 2001-US22529
W: AB. AG. AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ,
CO, CR, CU, CZ, DB, DK, DM, DZ, EC, EE, EB, FI, GB,
GM, HR, HU, 1D, IL, IN, IS, JP, KE, KG, KP, KR, KZ,
LS, LT, LU, LV, MA, MD, MG, MK, MN, MM, MK, MZ, NO,

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Erich Leese

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provide potential therapeutic in the treatment of COPD. Also, since CCRS is a co-receptor for the entry of MIV into cells, selective receptor modulators may be useful in the treatment of MIV infection.

19:881-79-1P
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(Organization of piperarine(or piperidine)-l-carbonamides as CCPS modula

(uses)
(preparation of piperazine(or piperidine)-1-carboxamides as CCR5 modulators)
391881-79-1 CAPUS
1-Piperazinecarboxamide, N-[3-[2-[bis(1-methylethyl)amino]ethoxy]-4methoxyphenyl]-4-(4-methoxyphenyl)-3-methyl- (9CI) (CA INDEX NAME)

35947-12-7. 1-(4-Methoxyphenyl)-3-methylpiperazine
RL: RCT (Reactant), RACT (Reactant or reagent)
(preparation of piperazine(or piperidine)-1-carboxamides as CCR5 modulators)
35947-12-7 CAPLUS
Piperazine 1-(4-methoxyphenyl)-2-methyl- (9CI) (CA INDEX NAME)

REFERENCE COUNT:

<12/04/2007>

THERE ARE 2 CITED REPERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

CAPLUS COPYRIGHT 2007 ACS ON STN 2001:886128 CAPLUS 136:20084

L9 ANSWER 11 OF 134
ACCESSION NUMBER:
DOCUMENT NUMBER:
TITLE:

136:20084
Preparation of 5-amino-pyrazolo(4,3-e]-1,2,4triazolo(1,5-c)pyrimidines as adenosine A2a receptor

INVENTOR (S) :

antagonists
Neustadt, Bernard R., Lindo, Neil A., Greenlee,
William J., Tulshian, Deen, Silverman, Lisa S., Xia,
Yan; Boyle, Craig D., Chackalamannil, Samuel
Schering Corporation, USA
PCT Int. Appl., 66 pp.

PATENT ASSIGNEE(S): SOURCE:

10/513699

NO, RU, SD, SE, SD, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VM, YU, ZA, ZM, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
RN, GM, GM, KE, LS, MM, MZ, SD, SI, SZ, TZ, UA, ZM, AT, BB, CH, CY, DE, DK, ES, PT, PR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CP, CT, CT, CM, GA, GN, GM, MM, MM, AR, SB, TD, TG
AU 2001080597 A1 20030528 EP 2001-958995 20010713 <-R1 AT, BE, CH, DE, DK, ES, PR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR
US 2004038982 A1 20040226 US 2003-343880 20030205
PRIORITY APPLIN. INFO:

OTHER SOURCE(S): MARPAT 116:1134785

OTHER SOURCE(S): MARPAT 136:134783

The title compds. (I; the basic N atom in moiety E may be optionally quaternized with alkyl or optionally present as the N-oxide; A = (un)substituted (heterolary) or (heterolary) fused to a saturated or partly unsatd. 5-7 membered ring; D = a bond. CO, SO2, etc., E 20 = Nc(R26)2, Nc(R26)2, CR27c(R26)2, CcR26, R26 = H, alkyl, R27 = H, CN, NO2, etc., R = N, alkyl, O J = CO, SO2, t = NR30, O, C(R30)2; R30 = H, alkyl; E = 1-(2-disopropylamino)echoxy-4-methoxyphenyl, etc.] which are modulators, agonists or antagonists, of the CCR5 receptor, and therefore are useful in the treatment and prevention of disease states mediated by CCR5, including, but not limited to, asthma and atopic disorders (for example, atopic dermatitis and allergies), rheumatoid arthritis, sarcoidosis, or idiopathic pulmonary fibrosis and other fibrotic diseases, atheroacierosis, psoriasis, autoimmune diseases such as multiple sclerosis, treating and/or preventing rejection of transplanted organs, and inflammatory bowel disease, were prepared Thus, treating 4-phenyl-1,2,3,4-tetrahydropyridine. HCl with triphosgene in the presence of EtN in CM212 followed by addition of 3-12-disopropylamino)ethoxy-4-methoxyaniline afforded fil. The compds. I showed CCR5 receptor modulator activity having ICSO values in the range of 0.0001-100 µM.

Purthermore, since CDS+ T cells have been implicated in COPO, CCR5 may play a role in their recruitment and therefore antagonists to CCR5 could

<12/04/2007>

Erich Leese

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LANGUAGE: PAMILY ACC, NUM, COUNT:

CODEN: PIXXD2 Patent English

PATENT INFORMATION:			
PATENT NO.	KIND DATE	APPLICATION NO.	DATE
		WO 2001-US16954	
		BA, BB, BG, BR, BY, BZ,	
		EC, RE, ES, FI, CB, GD,	
ID, IL, IN	, 19, JP, KG, KR,	KZ, LC, LK, LR, LT, LU,	LV, MA, MD,
		PL, PT, RO, RU, SE, SO,	SI, BK, SL,
	, TT, TZ, UA, US,		
		SL, SZ, TZ, UG, ZW, AT.	
		IE, IT, LU, MC, NL, PT,	
BJ, CF, CG	CI, CM, GA, GN,	GW, ML, MR, NE, SN, TD,	TO
CA 2410237	A1 20011206	CA 2001-2410237	20010524 <
US 2002099061	A1 20020725	CA 2001-2410237 UB 2001-865071	20010524 <
US 6630475	B2 20031007		
EP 1283839	A1 20030219	EP 2001-945991	20010524
R: AT, BE, CH	, DE, DK, ES, FR,	GB, GR, IT, L1, LU, NL,	SE, MC, PT,
IE, SI, LT	, LV, FI, RO, MK,	CY, AL, TR	
CN 1451007	A 20031022	CN 2001-813449	20010524
JP 2003535094	T 20031125	CN 2001-813449 JP 2002-500877	20010524
BR 2001011015	A 20050111	JP 2002-500877 BR 2001-11015 AT 2001-945991 E8 2001-1945991 NZ 2001-522326 CN 2006-10004929 HU 2006-229 ZA 2002-8898 NO 2002-5661	20010524
AT 293627	T 20050515	AT 2001-945991	20010524
ES 2237576	T3 20050801	ES 2001-1945991	20010524
NZ 522326	A 20060331	NZ 2001-522326	20010524
CN 1800186	A 20060712	CN 2006-10004929	20010524
HU 200600239	A2 20060728	HU 2006-239	20010524
ZA 2002008898	A 20040301	ZA 2002-8898	20021101
NO 2002005651	A 20030123	NO 2002-5661	20021125
MX 2002PA11625	A 20030327	MX 2002-PAII025	20021125
IN 2002CN01932 HK 1049007	A 20050211	IN 2002-CN1932	20021125
US 2004023997	A1 20040205	US 2003-448854	20030530
US 6897216	B2 20050524		
US 2005026932	A1 20050203		20040806
US 7067655 JP 2006219497	B2 20060627 A 20060824		
JP 2006219497	A 20060824	JP 2006-128415	20060502
JP 2007145875	A 20070614	JP 2007-69618	20070316
PRIORITY APPLN, INFO.:		JP 2007-69618 US 2000-207143P CN 2001-813449	P 20000526
		CN 2001-813449	A3 20010524
		JP 2002-500877 US 2001-865071	A3 20010524
		US 2001-865071	A3 20010524
		WO 2001-US16954	
		US 2003-448854	A3 20030530
OTHER COINCE (A)	MADDAT 126.2000		

OTHER SOURCE(S): MARPAT 136:20084

<12/04/2007>

Brich Lecse

The title compds. II, R = (un)substituted Ph. cycloalkenyl, heteroaryl; X = alkylene, COCH2; Y = O, S. CH2S. (CH2)2NH, etc.; Z = (un)substituted Ph. phenylalkyl heteroaryl. etc.; or Z and Y together are substituted Ph. phenylalkyl heteroaryl. etc.; or Z and Y together are substituted ph. piperidinyl or phenyll, useful in the treatment of Parkinson's disease, slone or in combination with other agents for treating Parkinson's disease, were prepared and formulated. E.g., a sulti-step synthesis of I [R = 2-furany]; X = (CH2)2; ZY = 4-(2,4-difluorophenyl)piperazin-1-yl) was described. Compds. I showed ki of 0.3-57 nM against A2a receptor binding. 3/77/27-38-3P 3/77/27-68-1P
RL; PAC (Pharmacological activity), SPM (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
[preparation of 5-amino-pyrazolo(4,3-e]-1.2,4-triazolo(1,5-c)pyrimidines as adenosine A2a receptor antagonists)
3/77/27-38-3 CAPUS
7H-Pyrazolo(4,3-e)1,2-(4)triazolo(1,5-c)pyrimidin-5-amine,
7-(2-(4-(-chlorophenyl)-3-methyl-1-piperazinyl)ethyl]-2-(2-furanyl)-(9CI) (CA INDEX NAME)

377727-60-1 CAPLUS
7H-Pyrazolo(4,3-e)[1,2,4]triazolo[1,5-e]pyrimidin-5-amine,
2-[2-furanyl]-7-[2-[4-(4-methoxyphenyl]-3-methyl-1-piperazinyl]ethyl][GCT] (CA-INDEX NAME)

<12/04/2007>

Erich Leese

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Erich Leese

Absolute stereochemistry.

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REFERENCE COUNT: THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE PORMAT

L9 ANSWER 12 OF 134 ACCESSION NUMBER:

CAPLUS COPYRIGHT 2007 ACS on STN
2001:747771 CAPLUS
135:303912
Preparation of succinoylamino-heterocycles as Alvepeptide production inhibitors
Thompson, Lorin Andrew, Kasireddy, Padmaja Dupont Pharmaceuticals Company, USA
PCT Int. Appl., 145, pp.
Option PIXXD2
PARD2
PARD2
PARD2
PARD2
PARD3
PAR DOCUMENT NUMBER: TITLE:

INVENTOR(S): PATENT ASSIGNEE(S): SOURCE:

MARPAT 135:303912

DOCUMENT TYPE:

LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION: English

OTHER SOURCE(S):

	PAT	TENT	NO.			KIN	D	DATE			APPL	ICAT	ION	NO.		D.	ATB		
							-									-			
	WO	2001	0747	96		A1		2001	1011		WO 2	001-	US10:	297		2	0010	330 <	
		W:	AT.	AU,	BR.	CA.	CH,	CN.	CZ.	DE,	DK.	EE.	Es,	FI.	GB,	NU.	IL.	IN,	
			JP.	KR.	LT.	LU.	LV.	MX.	NO.	NZ.	PL.	PT.	RO.	RU,	SE.	60,	SI.	BK,	
			UA.	VN.	ZA.	AM.	AZ.	BY.	KG.	KZ.	MD.	RU.	TJ.	TM					
		RW:								FI,					IT.	LU,	MC.	NL.	
				SE.															
	CA	2404	314			A1		2001	1011		CA 2	001-	2404	314		2	0010	330 <	
	EP	1268	454			Al		2003	0102		EP 2	001-	9244	98		2	0010	330	
		R:	AT.	BE.	CH.	DB.	DK.	28.	FR.	GB,	GR.	IT.	LI.	LU.	NL.	SE.	MC.	PT.	
				SI.															
	ĴР	2003									JP 2	001-	5724	89		2	0010	330	
PRIOR														90P		P 2	0000	331	
		• •••		••••									US10:				0010		

<12/04/2007>

Brich Leese

365539-26-0 CAPLUS 1-Piperazinebutanamide, 4-(4-chlorophenyl)-3-methyl- β -(2-methylpropyl)- γ -oxo- α -propyl-, (45, β R)- (9C1) (CA INDEX NAME)

Absolute stereochemistry.

365539-46-4 CAPLUS
1-Piperazinebutanamide, 3-methyl-4-(4-methylphenyl)-β-(2-methylpropyl)-γ-οχο-α-propyl-, (α8, RR)- (9C1) (CA INDEX NAME)

Absolute stereochemistry.

REFERENCE COUNT:

THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L9 ANSWER 13 OF 134
ACCESSION NUMBER:
DOCUMENT NUMBER:
TITLE:

CAPLUS COPYRIGHT 2007 ACS on STN
2001.731861 CAPLUS
136:14987 'Structure-Affinity Relationships of a Unique Nicotinic
Ligand: N1-Dimethyl-N4-phenylpiperarinium Todide
(DMPP)

AUTHOR (S) :

(MMPP) (MPP) CORPORATE SOURCE

SOURCE: PUBLISHER:

<12/04/2007>

DOCUMENT TYPE:

MEMORY TYPE: Journal
LINGE: Singlish
DMPP is a well-known nicotinic agonist that does not fit any proposed
pharmacophore for nicotinic binding and represents a unique ligand among
the hundreds of nicotinic agonists studied in the past decades. A
systematic modulation of the chemical structure of DMPP, aimed to establish
its structure-affinity relationships, is reported. The remearch has
allowed to identify moles, with affinities for cm(P) receptors in
the low nanomolar range, some 2 orders of magnitude lower than the lead
compound The agonistic properties of the most interesting compds, have been
assessed by measuring their analgesic activity on mice (hot-plate test).
Another result of the research was the identification of DMPP analogs with
ki = 90 nM and 180 nM, that maintain affinity for the central nicotinic
receptor when the ammonium function is changed into an aminic one and are
therefore possible leads for drug development in neurodegenerative

therefore possible leads for drug development in neurodegenerative diseases.
3)905-49-6P 378758-81-TP
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(structure-activity relationships of a nicotinic ligand, DMPP)
3)905-49-6 CAPLUS
Piperasine, 2,4-dimethyl-1-phenyl-, monohydrochloride (9CI) (CA INDEX NAME) IΤ

178758-81-7 CAPLUS
Piperazinium, 1,1,3-trimethyl-4-phenyl-, iodide (9CI) (CA INDEX NAME)

<12/04/2007>

Erich Leese

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The title compds. [I; A, B = C, N so that ring X = pyrrole. Pyrazole or imidazole (wherein when A = N, the group CONRIR2 is attached to atom C-1 and RS does not exist; and when A = C, one of CONRIR2 and RS is attached to A and the other to atom C-1; and when B = C, two R4 groups attached to B and atom C-5; resp., form a fused 6-membered heteroaryl); f = 0-1; g = 1-2; R1, R2 = H, alkyl, heterocycloalkyl, etc., R2 together with R1 or R5 forms a 5-6 membered heterocyclo; R3 = H, alkyl, aryl, etc.; R4 is attached to atom C-5 and optionally B and is H, alkyl, aryl, etc.; R5 is attached to A or atom C-3 and is H, alkyl, aryl, etc.; R5 together with R2 forms a heterocyclo], useful as cannabinoid receptor modulators (no data given) for treating respiratory and non-respiratory leukocyte-activation associated diseases, were prepared Thus, reacting the acid chloride II [X = C1] (multi-step synthesis given) with 2,2,6,6-tetramethylcyclohexylamine afforded the pyrroloi(1,2.3-del-1.4-benzoxazine-6-carboxamide II [X = 2,2.6,6-tetramethylcyclohexylamino] 354572-38-69
RL: BAC (Blological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); USES (Uses) (preparation of IM-indole-1-a-carboxamides, IM-indacel-3-carboxamides, IM-indacel-3-

10/513699

INVENTOR (S) :

REPERENCE COUNT: THERE ARE 63 CITED REPERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

RECORD. ALL CITATIONS AVAILABLE IN THE RE PORM

CAPLUS COPYRIGHT 2007 ACS ON STN
2001:597958 CAPLUS
315:166827
Preparation of IH-indole-3-carboxamides,
1H-inda20le-3-carboxamides,
1H-inda20le-3-carb

PATENT ASSIGNEE(S): SOURCE:

DOCUMENT TYPE: English

FAMILY ACC. NUM. COUNT:

PAT	ENT I	NO.			KIN	9	DATE			APP	LICAT	ION	NO.		D	ATE	
						-									-		
WO	2001	05886	59		A2		2001	0816		wo	2001-	U841	31		2	0010	208 <
WO	20010	95886	59		A3		2002	0124									
	₩:	AE,	AG,	AL,	AM,	AT,	AU,	AZ,	BA,	88	, BG,	BR,	BY,	BZ,	CA,	CH,	CN,
		CR,	CU,	CZ,	DE,	DK,	DM,	DZ,	EE,	ES	, FI.	GB,	GD,	GE,	CH.	GM,	HR,
		Hυ,	ID,	IL.	IN,	IS,	JP,	KE,	KG,	ΚP	, KR,	KZ.	LC,	LK,	LR,	LS,	LT,
		LU,	LV,	MA,	MD,	MG,	MK,	MN,	MW,	MX	, MZ,	NO.	NZ,	PL.	PT.	RO,	RU,
		SD,	SE,	SG.	SI,	SK,	SL,	TJ.	TM,	TR	. TT.	TZ.	UA.	UG.	US.	UZ.	VN.
		YU,	ZA,	zw													
	· RW:	GH,	GM,	KE.	Ls.	MW.	MZ,	SD.	st.	SZ	. TZ.	UG,	ZW.	AT.	BE.	CH.	CY.
		DE,	DK,	ES,	PI,	FR,	GB,	GR,	IE,	IT	, LU,	MC,	NL,	PT.	BE,	TR,	BF.
		BJ,	CF,	CG,	CI,	CM.	GA.	GN,	GW.	ML	, MR,	NE.	SN.	TD.	TG		
CA	2399	791			A1		2001	0816		CA	2001-	2399	791		2	0010	208 <
AU	2001	34956	9		A		2001	0820		ΑU	2001-	3495	8		2	0010	208 <
EP	1254	115			A2		2002	1106		EP	2001-	9071	44		2	0010	208 <
	R:	AT,	BE,	CH,	DE,	DK,	ES,	FR,	GB,	GR	, IT,	LI,	LU,	NL.	SE,	MC,	PT.
		IE,	SI.	LT.	LV,	PI,	RO,	MK,	CY,	AL	, TR						
JP	20045	50264	12		T	٠	2004	0129		JP	2001-	5584	20		2	0010	208
PRIORITY	APP	LN.	INFO	. :						UЯ	2000-	1918	18P		P 2	0000	211
										WO	2001-	US4 1	31	1	W 2	0010	208
OTHER SC	URCE	(S):			MAR	PAT	135;	1668	27								

<12/04/2007>

Brich Leese

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DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PRIORITY APPLN. INFO.:

MARPAT 135:152801

The title compds. [I, 0 = H or a bond which is taken together with X1 and two N atoms to which 0 and X1 are attached and C:Y group to which the two N atoms are attached to form II, 0] = alkyl, Y = 0, S, W = H, Cl, BT, etc., X1 = H, alkyl. hydroxyalkyl or a bond which is taken together with R3 to form pyrrolidino. piperazino or morpholino, R1, R2 = H, halo, OH, etc., R3 = H, alkyl. aryl. etc.], useful as inhibitors of serine/threonine and tyrosine kinases such as FOFR. PDOFR, KDR. VEOFR-3, Tie-2, Tie-1, LCK. Pyn. Blk. Lyn. Src. cdc2 (cdxl) or Plk-1 [biol. data given), were prepared and formulated. Thus, reacting 3,5-dimethoxyphenyl isocyanate with 2-maino-6-nitrobenzothiazole in the presence of Et3H in PhMe afforded I [W = M02: 0, X1, R1, R2 = H; Y = 0; R3 = 3,5-(Me012C6H3). In particular, compds. I are useful as inhibitors of tyrosine kinases that are important in hyperproliferative diseases, especially in cancer and in the process of angiogenesis.

in hyperproliferative diseases, especially in cancer and in the process of angiogenesis.

351527-26-5P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation of 2-benzothiazoly) ureas as protein kinase inhibitors)
352527-26-5 CAPLUS
1-Piperazinecarbothioamide, 3-methyl-N-(6-nitro-2-benzothiazolyl)-4-phenyl-(9CI) (CA INDEX NAME)

REPERENCE COUNT:

THERE ARE 22 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT 22

I.9 ANSHER 16 OF 134 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2001:472725 CAPLUS
DOCUMENT NUMBER: 135:76897
Synthesis and use of substituted piperidine and piperazine derivatives (e.g. N-(sulfonyl)ary), N-alkylcarboxamido piperazines) as antagonists of the

·12/04/2007>

Erich Leese

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$$R^3 - (SO_2)_{\mathfrak{m}}$$
, $X \longrightarrow H$
 $R^2 \longrightarrow X$
 $R^4 \longrightarrow 1$

Compds. of formula I, their preparation and use as P2X7 receptor antagonists are claimed (wherein; X = N or CR5; Y = O, S, or NR6, R1, R2 = N or alkyl but do not simultaneously represent N, or R1R2 = CN22CN2; Z = bond, O, S, CR2, or NR7; m = 0 or 1; R3 = 5-10 membered unsatd. (substituted) ring which may contain 1-4 heteroatoms chosen from N, O or S; R4 = ortho-substituted Ph/pyridinyl, said rings may be further substituted, or R4 = 9-10 membered unsatd. (substituted) or R4 = 9-10 membered unsatd. (substituted) bicyclic ring system which may contain 1-4 heteroatoms chosen from N, O or S; R5 = N, ON or alkoxy; R6 = N, CN, NO2, ON, alkyl or alkoxy; R7 = N, alkyl, with addnl. provisos). More than 100 synthetic examples are provided. For instance. (R)-1-ethyl-1-phenylmethylpiperazine (prepared in 3 steps from (R)-N-Boc-2-aminobutyric acid) was reacted with 1-methylimidazol-4-sulfonyld holoride in the presence of base to give the corresponding N-benzyl piperazine sulfonanide. This intermediate was debenzylated and reacted with 2-chloro-N-(quinolin-5-yllacetamide to yield II. The invention compds. were tested for antagonist activity at the P2X7 receptor using benzoylbenzyl ATP (bbATP, a P2X7 agonist) as control for P2X7 receptor activation. Compds. of the invention had p1C50 (neg. log of the concentration of test compound necessary to reduce the bbATP agonist activity \$0.00 > 0.

501) - 5.0. Compds. I are used for treatment of rheumatoid archritis and COPD, and for effecting immunosuppression.

147194-32-5P
RL: BAC (Biological activity or effector, except adverse), BSU (Biological actudy, unclassified), SPN (Synthetic preparation), THU (Therapeutic use), BIOL (Biological study), PREP (Preparation), USES (Uses)
(drug candidate, synthesis and use of substituted piperidine and piperazine derivs. (e.g. N-(sulfomyllary), N-alkylcarboxamido piperazines) as antagonists of the PZX7 receptor)

147194-12-5 CAPLUS
1-Piperazineacetamide, N-(2,6-dimethylphenyl)-3-methyl-4-(4-methylphenyl)-(SCI) (CA INDEX NAME)

Erich Leese

10/513699

P2X7 receptor Meghani, Premii, Bennion, Colin Astrazeneca AB, Swed. PCT Int. Appl., 156 pp. CODEN: PIXXD2 Patent English 1 INVENTOR(S): PATENT ASSIGNEE(S):

DOCUMENT TYPE;

PATENT NO. KIND ----DATE 20010628 DATE ... APPLICATION NO. WO 2000-682580 WO 2001046200 A1 20010628 MO 2000-6E2580 20001218 - W: AE, AO, AL, AM, AT, AU, AZ, BA, BB, BO, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EZ, ES, PI, OB, OD, GZ, CA, CH, CN, HU, ID, IL, IN, IS, JP, KZ, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MQ, MO, MK, MM, MM, MX, KZ, NO, XZ, PL, PT, RO, RU, SD, SE, SO, SI, SK, SL, TJ, TM, TR, TT. TZ, UA, UG, US, UZ, VN, YU, ZA, ZM
RW: GH, GM, KE, LS, MM, MZ, SD, SL, SZ, TZ, UO, ZM, AT, DE, CH, CY, BD, DK, ES, FJ, FR, GB, GR, IE, IT, LU, MC, ML, PT, BZ, TR, BF, BJ, CP, CG, CI, CM, GA, GN, GM, ML, MR, NE, SN, TD, TG
CA 2394095 A1 20010628 CA 2000-2394095 20001218 - EP 1242427 A1 2002925 EP 2000-989102 20001218 -WO 2001046200 20001218 <--CA 1374097

BR 2000018543
A 20020917
EP 1242427
A1 20020923
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
IE, SI, LT, LV, PT, RO, MK, CY, AL, TR
JP 2003518126
T 20030815
AT 247133
T 20030815
AT 247133
T 20030815
AT 2000-989102
20001218
AD 20040927
AD 20040927
AD 20040937
A NO 2002-3037 MX 2002-PA6261 US 2005-125335 SE 1999-4738 WO 2000-SE2580 US 2002-168094 20020621 <--20020621 <--20050510 19991222 US 2005272745 PRIORITY APPLN. INPO.:

OTHER SOURCE(S): MARPAT 135:76897

<12/04/2007>

Erich Leese

10/513699

35947-11-6
RL: RCT (Reactant), RACT (Reactant or reagent)
(precursor, synthesis and use of substituted piperidine and piperazine derivs. (e.g. N-(sulfonyl)aryl, N-alkylcarboxamido piperazines) as antagonists of the P2X7 receptor)
35947-11-6 CAPLUS
Piperazine, 2-methyl-1-(4-methylphenyl)- (CA INDEX NAME)

REPERENCE COUNT:

L9 . ANSWER 17 OF 134 ACCESSION NUMBER: DOCUMENT NUMBER: TITLE:

RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

CAPLUS COPYRIGHT 2007 ACS on STN
2001:338558 CAPLUS
134:340709
Preparation of substituted dipeptides having NDS
inhibiting activity
Shima, Ichiro, Ohkawa, Takohiko, Ohne, Kezuhiko, Sato,
Kentaro, Ishibashi, Naoki, Imamura, Kenichiro
Pujisawa Pharmaceutical Co., Ltd., Japan
PCT Int. Appl., 59 pp.
COOPN: PIXXD2
Patent
English
1 INVENTOR (S):

PATENT ASSIGNEE(S): SOURCE:

DOCUMENT TYPE:

PAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO. 20001027 ---

<12/04/2007>

R: AT, BE, CH, DE, DX, ES, FR, OB, GR, IT, LI, LU, NL, SE, MC, PT,

IE, FI, CY

JP 2003513104 T 20030405 JP 2001-535389 20001027

US 6825200 B1 20041130 US 2002-111412 20020506

PRIORITY APPLH: INFO: AU 1999-3868 A 19991104 JP 2001-535389 US 2002-111412 AU 1999-3868 WO 2000-JP7579

OTHER SOURCE(S):

MARPAT 134:340709

Dipeptides 1 [R1 is benzofuranyl or styryl substituted by halogen; R2 is (unlaubstituted Ph. pyridyl, thienyl, or thiazolyl; R3, R6 = H or lower alkoxy; R4, R5 = H, lower alkyl or optionally protected hydroxy(lower)alkyll or their pharmaceutically acceptable salts were prepared for use in the prevention and/or treatment of nitric oxide-mediated diseases. Thus, 5-chloro-N-[(15)-2-[(2-(4-chorophenyl)-1-piperazinyl)-2-oxocthyl]mainol-2-oxoc-1-(2-pyridylmethyl)-1-benzofuran-2-carboxamide (II) was prepared via amidation reaction and showed 100% inhibition of nitric acid. The combination of compound II and FK507 dramatically prolonged graft survival in rat cardiac allograft.

RL: BAC Biological activity or effector.

337530-63-9P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use);
BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of substituted dipeptides having NOS inhibiting activity)
337530-63-9 CAPIUS

3)7530-63-9 CAPLUS 2-Pyridinepropanamide, u-[[(S-chloro-2-benzofuranyl)carbonyl]amino]-N-[2-(3-methyl-4-phenyl-1-piperazinyl)-2-oxoethyl]-, (uS)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

<12/04/2007>

Erich Leese

10/513699

SD. SE, SG, S1, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM
RM: GH, GM, KE, LS, MM, MZ, SD, SL, SZ, TZ, UG, ZM, AT, BE, CH, CY, DE, DK, ES, F1, FR, GB, GR, IE, IT, LU, MC, NL, FT, SE, BP, BJ, CP, CG, C1, CM, GA, GM, GM, ML, MR, NE, SM, TD, TG
DE 19945594 A1 20010329 DE 1999-19945594 19990923 DE 2000319 BP 1228051 A1 20020807 EP 2000-368759 20000319 PEP 1228051 A1 20020807 EP 2000-369264 20000319 19990923 <--20000919 <--20000919 <--EP 1228651 A1 20020807 EP 2000-969264 20000919
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, TT, LI, LU, NL, SE, MC, PT,
IE, SI, LT, LV, FI, RO, MK, CY, AL
JP 200350950 T 20000919
JP 3908034 B2 20070425
WX 2002PA02238 A 20030721 MX 2002-PA2838 20020114
US 6818644 B1 20041116 US 2002-PA2838 200201014
US 6818644 B1 20041116 US 2002-PA2838 200201014
US 6818644 B1 20041116 US 2002-PA2838 200201014 JP 3908034 MX 2002PA02838 US 6818644 PRIORITY APPLN, INFO.: MX 2002-PA2838 US 2002-89024 DE 1999-19945594 WO 2000-EP9146 20020314 · 20020701 19990923 20000919 OTHER SOURCE(S): MARPAT 134:266313

Compds. of formula 1 (wherein, n is 1-5; m is 1 or 2; X is a bond, O, CH2(CH2), imino or N-alkyl-imino, Rl is (substituted) aryl or heteroaryl; R2, R3 are hydrogen or alkyl; R6, R7 are H, (fluorolalkyl, cycloalkyl, Ph, heteroaryl, etc., or NRGRT may form a 3-7 membered ring.). Thirty eight examples of I are prepared (e.g. II). Compound II was prepared by alkylation ΑB

9-fluorenecarboxylic acid with 1,4-dibromobutane. The alkylated intermediate was converted to its acyl chloride derivative, and treated with 2,2.2-trifluoreethylamine to provide pivotal intermediate, 9-(4-bromobutyl)-9H-fluorene-9-(2,2,2-trifluoreethylcarboxamide). Alkylation of 1-phenylpiperazine with this intermediate yields II. Three solid oral dosage formulations of compds. I are disclosed. Compds. of

Erich Leese

10/513699

337530-61-7P 337530-62-8P RL; RCT (Reactant); BPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (preparation of substituted dipeptides having NOS inhibiting activity) 337530-61-7 CAPLUS

1-Piperazinecarboxylic acid, 3-methyl-4-phenyl-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

337530-62-8 CAPLUS Piperazine, 2-methyl-1-phenyl-, hydrochloride (9CI) (CA INDEX NAME)

●x HCl

REFERENCE COUNT: THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

COPYRIGHT 2007 ACS on STN 228874 CAPLUS ANSWER 18 OF 134 CAPLUS

NPLUS COPYRIGHT 2007 ACS on STN
2001:228974 CAPLUS
134:265313
Preparation and use of substituted piperazine
derivatives as MTP inhibitors
Lehmann-Lintz, Thorsten; Heckel, Armin; Thomas, Leo;
Mark, Michael
Boehringer Ingelheim Pharma K.-G., Germany
PCT Int. Appl., 70 pp.
CODEN: PIXXD2 ACCESSION NUMBER: DOCUMENT NUMBER: TITLE:

INVENTOR (S) :

PATENT ASSIGNEE(S): SOURCE:

DOCUMENT TYPE: LANGUAGE: PAMILY ACC, NUM. COUNT: PATENT INFORMATION:

PAT	TENT	NO.			KIN	D	DATE			APPL	ICAT	ION	NO,		D.	ATE		
						-									-			
WO	2001	0216	04		A1		2001	0329		WO 2	000-	EP91	16		2	0000	919	٠٠٠
	₩:	AE,	AG,	AL.	AM,	AT,	AU,	AZ,	BA,	BB,	BO,	BR.	BY,	BZ,	CA,	CH,	CN,	
		CR,	CU,	CZ,	DE,	DK,	DM,	DZ.	EE,	ES,	FI,	GB,	GD,	GE,	GH,	GM,	HR,	
		HU,	ID,	IL.	IN,	IS,	JP,	KE,	KG,	KP,	KR,	KZ,	LC,	LK,	LR,	LS,	LT,	
		LU,	LV,	MA,	MD,	MG,	MK,	MIN,	MW,	MX,	MZ,	NO,	NZ,	PL,	PT.	RO,	Rυ,	

<12/04/2007>

Brich Leese

10/513699

formula I are said to be inhibitors of the microsomal triglyceride-transfer protein (MTP). Use of compds. I to prepare drugs which lower plasma levels of atherogenic lipoproteins is claimed. 331767-25-07

331767-25-09
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified), SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation and use of substituted piperazine derivs.)
331787-25-0 CAPLUS
9H-Fluorene-9-carboxamide, 9-[4-[3-methyl-4-(4-methylphenyl)-1-piperaziny])butyl]-N-(2,2,2-trifluoroethyl)- (9C1) (CA INDEX NAME)

PAGE 1-A

PAGE 2-A

THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT REFERENCE COUNT:

L9 ANSWER 19 OF 134 ACCESSION NUMBER: DOCUMENT NUMBER: TITLE:

CAPLUS COPYRIGHT 2007 ACS ON STN
2001:208282 CAPLUS
134:237473
Preparation of 1-amino-3-thienoisexasolylphenoxy-2Preparation of 1-amino-3-thienoisexasolylphenoxy-2Print, David M., Preed, Brian S., Hirlb, Nicholas J.;
Kosley, Raymond M., Jr.; Lee, George E., Merriman,
Gregory H., Rauckman, Barbara S.
Aventis Pharmaceuticals, Inc., USA
PCT Int. Appl., 157 pp.
CODEN: PIXXD2
Patent
English INVENTOR (S):

PATENT ASSIGNEE(S); SOURCE:

DOCUMENT TYPE: English

<12/04/2007>

ES 2209995
TW 530060
NO 2002001251
MX 2002PA02695
ZA 2002001762
US 7125903
US 2007004695
PRIORITY APPLN. INFO.;

OTHER SOURCE(S):

MO 2000-US21962 W 20000913

R SOURCE(S): MARPAT 134:237472

R ZOCH2CRIRZCHZNRSR4 [I; R = e.g., thieno[2,3-d]isoxazol-3-yl, R1 = OH or alkoy, R2,R4 = H or alkyl, R3 = CH2R5, CH2CH(OH)R5, indamyl, etc., R5 = cyclohex(en)yl, (heterolaryl, etc., Z = phenylenel were prepared Thus, 3-bromothiophene was acylated by 3-(Meol)c6H4COCl and the oximated product cyclized to give, after O-demethylation, 3-RC6H4OH [R - thieno[2,3-d]isoxazol-3-yl] which was etherified by (R)-glycidyl tosylate and the product aminated by PhCHMeNN2 to glyce (R)-3-RC6H4OH(CH1CH2NMeCH2Ph (R as above). Data for biol. activity of I were given.

130651-02-0P

RL: BAC (Biological activity or effector, except adverse), BSU (Biological study, unclassified), SPN (Synthetic preparation), THU (Therapeutic use), BIOL (Biological study), PREP (Preparation), USES (USES)

(preparation of 1-amino-3-thienoisoxazolylphenoxy-2-propanols as dopamine D4 antagonists)

antagonists) 310651-02-0 CAPLUS 1-Piperazineethanol, 4-(4-methoxyphenyl)-3-methyl- α -[(3-thieno[2,3-dlisoxazol-3-ylphenoxy)methyl]-, (αR) - (9CI) (CA INDEX NAME)

Absolute stereochemistry.

<12/04/2007>

Erich Leese

10/513699

RW: AT, BB, CH, CY, DE, DX, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE
CN 1373754 A 2000810 CN 2000-812860 20000810 < CA 2379051 A1 20010215 CA 2000-2379061 20000810 < CE 1202968 A2 20020508 EP 2000-949820 20000810 < CE, AT, BB, CH, DE, DX, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, FI, RO, CY
BR: 200001312 A 22020611 RE 2000-13112 20000810 < CE 12020610 A2 20020610 A2 20020611 AP 2002-2514 A2 20020810 A2 20020810 A2 20020810 A2 20020810 A2 20020810 A2 20020810 A2 20020818 JP 2001-515301 20000810 AU 765881 B2 20031023 AU 2000-517239 20000810 A0 20000810 A 20000810 A2 2017239 A 20040924 AP 20000-517239 20000810 20000810 <--BR 2000-13112
TR 2002-2616
HU 2002-2514
JP 2001-515301
AU 2000-63080
MC 2000-517239
CN 2005-10081198
RU 2002-10007164
ZA 2002-1007164
MX 2002-1091
MX 2002-621
MX 2002-PA1194
US 2002-953788 BR- 2000013112 TR 200200360 HU 200202514 JP 2003506438 AU 766881 NZ 517239 CN 1704402 RU 2269525 CN 101007784 ZA 2002001093 NO 2002000621 20020611 20020621 20021128 20030218 20031023 20040924 20051207 20060210 20000810 <--20000810 <--20000810 20000810 20000810 20000810 20000810 A C2 A A A B1 20030210 20000810 20020207 20020208 <--20020208 <--20020710 20040930 NO 2002000621 20020409 20020812 MX 2002PA01394 US 6846825 20050125 20050324 20070306 US 6846825 US 2005065095 US 7186719 PRIORITY APPLN, INFO.: GB 1999-18869 GB 1999-27093 CN 2000-812860 WO 2000-GB3078 US 2002-49131

CN 2000-812860 A3 20000810

CTHER SOURCE(S):

MARPAT 134:163065

AB Selected compds. (Oct (Rt) (CR(Rt) (CO) A)

Selected compds. (Oct (Rt) (CR(Rt) (CO) A)

Selected compds. (Oct (Rt) (CR(Rt) (CO) A)

comprising such compds. (Oct (Rt) (CO) A)

range of Gram-pos. and Gram-neg. organisms. In I, Q = -N(OR) (CO) H

range of Gram-pos. and Gram-neg. organisms. In I, Q = -N(OR) (CO) H

halogen atoms, or, except when O is -N(OR) (CO) H, substituted by 2

halogen atoms, or, except when O is -N(OR) (CO) H, Mydroxy, Cl-C6 alkay).

Cl-C6 alkay | substituted by 2

avpl(Cl-C6 alkay) -, and A = -NRC(RRC(O) NRSR or -NRSRS, Wherein R4 = side

chain of a natural or non-natural \(\alpha\)-mino acid, and R5 \(\alpha\) day Rerein R4 = side

chain of a natural or non-natural \(\alpha\)-mino acid, and R5 \(\alpha\) day Rerein R4 = side

chain of a natural or non-natural \(\alpha\)-mino acid, and R5 \(\alpha\) day Rerein R4 = side

chain of a natural or non-natural \(\alpha\)-mino acid, and R5 \(\alpha\) day Rerein R4 = side

chain of a natural or non-natural \(\alpha\)-mino acid, and R5 \(\alpha\) day Rerein R4 = side

chain of a natural or non-natural \(\alpha\)-manple act attached form a saturated

heterocyclic lat ring of 5 to 7 atoms (piperidine and piperaline in the

examples). In general, the compds of the examples are more active

against the Gram pos. S. capitis than the Gram neg. B. coli. Test results

are also reported for 2R-cyclopentylnethyl-3-(Tomylhydroxyamino)-H-(18-[4
4-(4-hydroxypiperidine-1-carbonyl)) phenoxyl piperidine-1-carbonyl)-2, I
dimethylpropyl) propionamide against certain respiratory tract pathogens.

Although the methods of preparation are not claimed, appra. 75 example prepns.

are Included.

115-(4-(4-methoxyphenyl)-3-methylpiperatine-1-carbonyl]-2, 2
dimethylpropyl panied 32578-55-87. N-N-Hydroxy-M-(2R-[4-(4
methoxyphenyl)-3-methylpiperatine-1-carbonyl) phenoxylpinoxyl hydroxylamine derivs. as

antibacterial agents)

(preparation of hydroxamic acid and N-tormyl hydroxylamine derivs. as

antibact

Erich Leese

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35947-12-7, 1-(4-Methoxyphenyl)-2-methylpiperazine
RL: RCT (Reactant); RACT (Reactant or reagent)
(preparation of 1-amino-3-thienoisoxazolylphenoxy-2-propanols as dopamine D4
antagonists)
35947-12-7; CAPLUS
Piperazine, 1-(4-methoxyphenyl)-2-methyl- (9CI) (CA INDEX NAME)

REFERENCE COUNT: THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

CAPLUS COPYRIGHT 2007 ACS on STN 2001:115118 CAPLUS 114:163065 Preparation of hydroxamic acid and N-formyl hydroxylamine derivatives as antibacterial agents Pratt, Lias Marie; Keavey, Kenneth Noel; Pain, Gilles Denis; Mounier, Laurent Franck British Blotech Pharmaceuticals Limited, UK PCT Int. Appl., 101 pp. CODEN: PIXXD2 Patent INVENTOR (S) :

PATENT ASSIGNEE(S);

DOCUMENT TYPE: Patent English

PAMILY ACC. NUM. COUNT: PATENT INFORMATION:

NO. KIND DATE APPLICATION NO. DATE

010834 A2 20010215 MO 2000-083078 20000810 <-010834 A3 20010628
AE, AU, BR, BY, CA, CN, CZ, DZ, EE, GB, GE, HU, ID, IL, IN, IS,
JP, YKE, KR, MX, NO, NZ, PL, RO, RU, SQ, SI, SK, TR, US, VN, ZA, ZM APPLICATION NO. PATENT NO. WO 2001010834 WO 2001010834

<12/04/2007>

Erich Leese

10/513699

Absolute stereochemistry.

325795-56-0 CAPLUS
Piperazine, 4-[(IZR)-2-[(formylhydroxyamino)methyl]-1-oxohexyl]-1-(4methoxyphenyl)-2-methyl- (9C1) (CA INDEX NAME)

ACCESSION NUMBER; DOCUMENT NUMBER; TITLE:

INVENTOR (S) :

ANSWER 21 OF 134 CAPLUS COPYRIGHT 3007 ACS on STN
2000:824220 CAPLUS
2000:824220 CAPLUS
134:7199
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PATENT ASSIGNEE (S) : SOURCE:

DOCUMENT TYPE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

APPLICATION NO. PATENT NO. KIND. DATE MO 2000069821 A1 20001123 MO 2000-U56719 20000515 M: AB, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CM, CR,

13699

CU, CZ, DE, DX, DM, DZ, EE, ES, FI, GB, GD, GE, ID, IL, IN, IS, JP, KE, KG, KP, KE, KZ, LC, LK, LV, MA, MD, MG, MK, MN, MM, MX, MO, NZ, PL, PT, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, RW: GM, GM, KE, LB, MM, SD, SL, SZ, TZ, UG, ZM, AT, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, CG, CI, CM, GA, GM, ML, MR, NR, SN, TD, TG US 6750234 A1 2000123 CA 2000-2373914 A1 20001123 CA 2002-2373914 A1 20001025 CA 2372934 A1 200000165 US 2000-50038 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, LU, LE, SI, LT, LV, FI, RO
BR 2000010562 A 200100103 RP 2000-010562 JP 2003520196 T 20031023 AU 2000-17970 NZ 515217 A 20040430 NZ 2001-615218 ND 2001005543 A 20021010 ND 2001-5543 ND 2001005543 A 2002100 ND 2001-5543 ND 2001005543 A 2002006 ND 2001-5543 ND 2001-1811569 GH. GM. HR. HU. LR. LS. LT. LU. RO. RU. SD. SE. UZ. VN. YU. ZA. ZW BE. CH. CY. DE. SE. BF. BJ. CF. 20000512 20000515 <--20000515 <--RX 2000-10562 DR 2000-10562 DP 2000-618238 AU 2000-47970 AU 2000-515217 ZA 2001-9006 MX 2001-PA11569 MX 2001-PA11569 US 1993-911837 US 2000-570731 US 1993-95347P US 1998-101080P US 1998-256948 MO 2000-US6719 20000515 20000515 20000515 20000515 20000515 2000515 20011031 <--20011113 <--20011113 A 19990514 A 20000512 P 19971114 P 19980804 P 19980918 B2 19990224 W 20000515 MX 2001PA11569 PRIORITY APPLN, INFO.: 20050620

OTHER SOURCE(S):

MARPAT 134:17399

A treatment process is disclosed that comprises administering an effective amount of an aromatic sulfone hydroxamic acid I [M = H, cation, certain acyl or thioscyl groups; m, n, p = 0-2; (s-m:n) = 1 to 4; one of X, Y, and Z = CO. NH or derivs., O, S, SO, SO2, etc., and the other two = (un)substituted C12; or X2 or XY = (un)substituted NHCO, NHSO, NHSO2, SS, OCO, etc., and the other one = (un)substituted C12; or n = 0 and XZY = atoms to complete various N/O/S heterocycles; O = 5 to 7-membered heterocycle with 1-2 N atoms, one bound to Ph, and with -AREY bound in para-type positions; A =

<12/04/2007>

Brich Leese

10/513699

REPERENCE COUNT:

THERE ARE 5 CITED REPERENCES AVAILABLE FOR THIS RECORD, ALL CITATIONS AVAILABLE IN THE RE FORMAT

L9 ANSWER 22 OF 134 ACCESSION NUMBER: DOCUMENT NUMBER; TITLE:

CAPLUS COPYRIGHT 2007 ACS on STN
2000.628119 CAPLUS
133.122745
Preparation of 1-[(2-arylindol-3-yl)-1oxonlkylp)pieroxines as antagonists of tachykinins
Chapman, Kevin T., Dinnell, Kevin, Elliott, Jason
Matthew, Hollingworth, Gregory John, Hutchins, Steven
Hichael, Shaw, Duncan Edward, Willoughby, Christopher
Alan INVENTOR (S): .

Alan
Merck Sharp & Dohme Limited, UK
PCT Int. Appl., 90 pp.
CODEN: PIXXD2
Patent
English PATENT ASSIGNRE(S):

SOURCE:

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO. 20000223 < WO 2000051984 WO 200051984
W: AE, AL, AM,
CZ, DE, DK,
IN, IS, JP,
MD, MG, MK,
SK, SL, TJ,
AZ, BY, KG,
RM: GH, GM, ES, PI,
CG, CI, CM,
US 6518273
PRIORITY APPLIN, INPO.;

OTHER SOURCE(S):

Brich Leese .

bond, O, S, (un)substituted NH, COO, OCO, CH:CH, C.tplbond.C, N:N, NHNN, NHCOO, (un)substituted CONM, NHCO, etc.; R = alkylene, arylene, heteroarylene, etc., with provisor; E = bond, CONM, NHCO, CO, 502, NHSO2, SOZNM, S, etc.; Y = absent, H, alkyl, alkoxy, aryl, aryloxy, heteroaryl, etc.] to a host having a condition associated with pathol. matrix metalloprotease (MMP) acrivity. I exhibit excellent inhibitory activity of one or more MMP enzymes, such as MMP-2, MMP-9 and MMP-13, Allo disclosed are metalloprotease inhibitor compds. having such selective activities, processes for manufacture of such compds., and pharmaceutical compas using such inhibitors. The compds are potentially useful against a wide variety of conditions, notably as antiinflammacory, antianglogenesis, and antitumor agents. Over 900 example compds, are listed, most with supporting phys. data, and many with synthetic details. For instance, Et N-(tert-butoxycarbonyl)-4-(4-(furpophenylsulfonyl)-4-piperidinecarboxylate (preparation given) was subjected to a sequence of: (1) etherification with 4-(CFS)SOSIGNION (10) all him bydrolysis of the ester (1003); (3) amidation with THP-ONN12 (455); and (4) acid deprotection of the THP ether (40), to give title compound II.RCI. The latter sait selectively inhibited MPP-13 with ICSO 0.2 nM, and MMP-2 with ICSO 0.1 nM, but with ICSO >10,000 nM against MMP-1.
30821-73-0P
RL: BAC (Bological activity or effector, except adverse), BSU (Biological study), PREP (Preparation), TMU (Thorapeutic use); BIOL (Biological activity) PREP (Preparation), USES (Uses)
(drug Candidate, preparation of aromatic sulfone hydroxamic acids as metalloprocease inhibitors)

10821-73-0P
RL: BAC (Bological activity or effector, except adverse), BSU (Biological study); PREP (Preparation), USES (Uses)
(drug Candidate, preparation of aromatic sulfone hydroxamic acids as metalloprocease inhibitors)

10821-73-0P
RL: BAC (Bological activity or effector). (AC INDEX NAME)

35947-12-7, 1-(4-Methoxyphenyl)-2-methylpiperarine
RL: RCT (Reactant), RACT (Reactant or reagent)
(starting material, preparation of aromatic sulfone hydroxamic acide as metalloprotease inhibitors)
35947-12-7 CAPLUS

Piperazine, 1-(4-methoxyphenyl)-2-methyl- (9CI) (CA INDEX NAME)

<12/04/2007>

Erich Leese

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The title compds. [I, R1a, R1b = H, alkyl, alkoxy, etc.; R2 = H, alkyl, fluoroalkyl, etc.; R3 = (un)substituted Ph, biphenyl, naphthyl; R4 = H, alkyl, 0 (to form carbonyl), etc.; R5 = alkyl, cycloalkyl, cycloalkylalkyl, etc.; X = 0, 8; n = 1-4] and their pharmaceutically acceptable salts which are potent receptor antagonists of tachyklnins, especially of the neurokinin-1 (substance P) receptor (no data), and useful in the treatment or prevention of depression, anxiety, pain, inflammation, migraine, emesis or postherpetic neuralgia, were prepared 8.9, a synthesis of the piperazine I [R1a = 5-Me; R1b = H; R2 = H; R3 = 4-BrC6H4; R4 = H; R5 = 2-MecC6H4; X = 0, n = 2] was given. Compds. I are effective at 0.05-10 mg/kg/day in the treatment of conditions associated with an excess of tachyklnins [30030-78-19 29030-83-0P 29031-26-4P RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic usel; BIOL (Biological study); PREP (Preparation); USPS (Uses) (preparation of 1-[(2-arylindol-1-yl)-1-oxoalkyl)piperazines as antagonists of tachykinins)
290830-79-3 CARUS
Piperazine, 4-[3-12-(4-bromophenyl)-5-methyl-1H-indol-3-yl]-1-oxopropyl]-1-(4-methoxyphenyl)-2-methyl- (9CI) (CA INDEX NAME)

290830-83-0 CAPLUS
Piperazine, 4-[3-[2-(4-bromopheny1)-5-methyl-1H-indol-3-yl]-1-oxopropyl)-1(4-chlorophenyl)-2-methyl- (9CI) (CA INDEX NAME)

<12/04/2007>

Brich Leese

<12/04/2007>

290831-26-4 CAPLUS Piperazine, 4-[3-12-(4-bromophenyl)-5-methyl-1H-indol-3-yl]-1-oxopropyl]-1-(3-chlorophenyl)-2-methyl- (9CI) (CA INDEX NAME)

REFERENCE COUNT:

THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L9 ANSHER 23 OF 134
ACCESSION NUMBER:
DOCUMENT NUMBER:
133:193079
TITLE:
PATENT ASSIGNEE(S):
DOCUMENT TYPE:
PATENT ASSIGNEE(S):
DOCUMENT TYPE:
LANGUAGE:
PATENT INFORMATION:
PATENT INFORMATION:
PATENT INFORMATION:
PATENT INFORMATION:

RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT
2008:608722 CAPLUS
2008:608722 CAPLUS
2019:131:193078
Preparation of arylsulfonylheterocyclylhydroxamic
acids and related compounds as matrix metalloprotease
Inhibitors
Barta. Thomas E.; Becker. Daniel P., Bedell, Louis J.;
Bochm. Terri L.; Carroll, Jeffery N., De Crescenzo,
Gary A.; Fobian, Yvette M., Freskos, John N., Getman,
Daniel P., Wetchen, Freskos, John N., Getman,
Daniel P., Wetchen, Freskos, John N., Getman,
Daniel P., Wetchen, Freskos, John N., Getman,
Daniel P., Hollowid, Joseph J., Hanson, Gunnar J.;
Hockerman, Susan L., Howard, Susan C., Kolodziej,
Steve A.; Li, Hui; Mischke, Deborah A.; Rico, Joseph
G.; Steble, Nathan W.; Tollefson, Michael B., Vernier,
William F., Villamil, Clara I.; Rao, Shashidahar B.
CODEN: PIXXD2
PATENT INFORMATION:
English
FAMILY ACC. NUM. COUNT:
PATENT INFORMATION:

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

×12/04/2007>

Erich Leese

10/513699

treated with hydroxybenzotriazole, EDC, 4-methylmorpholine, and aqueous NH2OH to give title compound I. I inhibited MMP-2 with IC50 = 0.2 mM. Pharmacol., pharmacokinetic, and toxicol. data are given for selected commonds.

39947-12-7
Ri. RCT (Reactant); RACT (Reactant or reagent)
(preparation of arylsulfonylheterocyclylhydroxamic acids and related compds.
as matrix metalloprotease inhibitors)
35947-12-7 CAPLUS
Piperazine. 1-(4-methoxyphenyl)-2-methyl- (9CI) (CA INDEX NAME)

REPERENCE COUNT:

THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

Erich Leese

CAPLUS

L9 ANSWER 24 OF 134 ACCESSION NUMBER: DOCUMENT NUMBER: TITLE;

APLUS COPYRIGHT 2007 ACS on STN
2000:513446 CAPLUS
133:12963
Heterocyclic compound modulators of the CCR5 receptor, preparation thereof, and therapeutic use Bondinell, William E., Neeb, Michael J.
Smithkline Beecham Corporation, USA
PCT Int. Appl., 43 pp.
CODEN: PIXXD2
PAtent

INVENTOR(S): PATENT ASSIGNEE(S): SOURCE:

DOCUMENT TYPE: LANGUAGE: FAMILY ACC, NUM, COUNT: PATENT INFORMATION:

*																			
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		W:	AE.	AL,	AU,	BA,	вв,	BG,	BR,	CA,	CN,	cz,	EE,	GE,	GH,	GM,	HR,	HU,	
			ID.	IL.	IN.	IS.	JP.	KP.	KR.	LC.	LK.	LR.	LT.	LV.	MA,	MG,	MX,	MN,	
			MX.	NO.	NZ.	PL.	RO.	SG.	SI,	SK.	SL.	TR.	TT.	UA.	US.	UZ,	VN.	YU,	
									MD,										
		RW:	GH,	GM,	KE.	LS,	MW.	SD,	SL,	SZ,	TZ.	υo,	ZW,	AT,	BE.	CH,	CY,	DE,	
			DK,	ES.	PI,	PR,	GB,	GR.	IE,	IT,	LU.	MC,	NL,	PT,	SE,	BF,	ΒJ,	CF,	
			CG,	CI,	CM,	GA,	GN,	GW,	ML,	MR.	NE.	SN,	TD.	TG					
	EP	1146	790			A1		2001	1024		EP 2	000-	9099	84		2	0000	125	<
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			IE,	SI,	LT.	LV,	FI,	RO											
	JP	2002	5352	56		T		2002	1022		JP 2	000-	5943	26		2	0000	125	<
PRIO	RITY	APP	LN.	INFO						1	US 1	999-	1170	44P		P 1	9990	125	
										1	WO 2	000-	U919	0.8		₩ 2	0000	125	

10/513699

PATENT NO. APPLICATION NO. DATE 20000831 KIND DATE A1 AT, DM, KE, WO 2000-US2518 MO 2000050396

M: AK. AL. AM.
CZ. DR. DR.
IN. 1S. JP.
MD. MG. MK.
SK. SL. TJ.
RW: GH. GM. KE.
CG. CI. CM.
US 2001039217

CA 2371876

MU 20020239

EU 23219 WO 2000050396 20000831 AU. AZ, DA, BB, EE, ES, FI, GB, KG, KP, KR, KZ, MM, MX, NO, NZ, TR, TT, TZ, UA, MM, SD, SL, 6Z, OB, GR, IE, IT, CN, GM, ML, MR, 2001108 20000831 20020629 20020629 WO 2000-U92518
, BO, BR, BY, CA, CH,
, GD, GR, GH, GM, HR,
, LC, LK, LR, LS, LT,
, PL, PT, RO, RU, BD,
, UG, US, UZ, VN, YU,
, TZ, UG, ZM, AT, DE,
, NE, SN, TD, TO
US 1999-25648
CA 2000-2371876
RU 2002-239
BU 2002-239
BU 2002-239 20000222 <--20000222 <
CN, CR, CU,
HU, ID, IL,
LU, LV, MA,
SE, BG, SI,
ZA, ZW
CH, CY, DE,
BP, BJ, CF. MN. TM, LS. FR. GA. A1 A1 A2 A1 19990224 <--20000222 <--20000222 <--20000222 <--EP 1230219 EP 2000-913317 20020814 1330219 A1 20020814 FP 2000-913317 20000222 × R: AT, BE, CH, DE, DK, ES, FR, GB, GR, LT, LJ, LU, NL, BE, MC, PT, LG, COMBON CY, AL 200209491 B2 2000-6491 2000223 × 200209491 TP 2000223 × 200209491 TP 20000223 × 200209491 TP 20000222 × 200209498 A 20010027 N2 2000-611648 2000222 × 200100598 A 20010021 N2 2000-611648 2000222 × 200100598 A 2001003 N2 2001-3963 20010615 × 200106170 A 20050304 TR 2001-6700 20010615 × 200106170 A 20050304 TR 2001-CN1174 20010621 × 2001PA08568 A 20021028 MX 2001-PA8568 200100217588 A1 20021128 US 2001-954451 20010917 × 20010917 IS, ST, L SR 200008491 JP 2002537378 NZ 513648 NO 2001003663 Z2 2001006780 IN 2001001174 MX 2001PA08568 US 2002177588 US 6750233 PRIORITY APPLN, INFO.: 20000222 <--20000222 <--20000222 20010815 <--20010816 <--20010821 20010823 <--20010917 <--US 1999-256948
US 1997-66007P
US 1998-95347P
US 1998-95501P
US 1998-101080P
WO 2000-US2518 19990224 19971114 19980804 19980806 19980918 20000222

OTHER SOURCE(S): MARPAT 133:193079

A process for treating conditions associated with pathol. matrix metalloproteinase (MMP) activity comprises administration of compds. having inhibitory activity against >1 of MMP-2, MMP-9, and MMP-13, while exhibiting substantially less inhibition of MMP-1. The compds. are of the form HONNCOCRISCORY IN R2 = H, RIR2 = atoms to form a 5-8 membered ring containing 1-3 heteroatoms, R3 = (substituted) aryl, heteroatyll. Thus, 4-PhoCSHSH was heated in Me2SO to give the disulfide dimer, which in THF was added to a mixture of Et N-tert-butoxyarbonylisonipecotate (preparation given) and LDA in THP at -60° to room tomperature to give 40° sulfide, which was oxidized with m-clCGHACCOCH) to give 59° sulfone. The Bt ester was saponified with NaOH in EtOH/H2O to give 100° acid, which in DMP was

<12/04/2007>

Brich Leese

OTHER SOURCE(S):

MARPAT 133:129863

Substituted heterocyclic compds. are provided which are modulators, agonists or antagonists of the CCRS receptor. Also disclosed is the treatment and prevention of disease states mediated by CCRS, including, but no limited to, asthma and atopic disorders (for example, atopic dermatitis and allergies), rheumatoid arthritis, sarcoidosis and other fibrotic diseases, atherosclerosis, pporiasis, autoimmune diseases such as multiple sclerosis, and inflammatory bovel disease, all in mammals, by the use of substituted heterocyclic compds, which are CCRS receptor antagonists. Furthermore, since CDB-T cells have been implicated in . COPD, CCRS may play a role in their recruitment and therefore antagonists to CCRS could provide potential therapeutic in the treatment of COPD, Also, since CCRS is a co-receptor for the entry of HIV into cells, selective receptor modulators may be useful in the treatment of HIV infection.

IT 286387-94-8P

RE: BAC (Biological activity or effector, except adverse), BSU (Biological)

286387-94-8P
RE: BAC (Biological activity or effector, except adverse), BSU (Biological study, unclassified); SPN (Synthetic preparation), THU (Therapeutic use), BSU. (Biological study), PREP (Preparation), USES (Uses) (heterocyclic compound modulators of CCRS receptor, preparation, and therapeutic use)
286387-94-8 CAPUUS
1-Piperatinecarboxamide, N-[3-[2-[bis(1-methylethyl)amino]ethoxy]-4-methoxyphenyl]-3-methyl-4-phenyl- (9CI) (CA INDEX NAME)

(i-Pr) 2N-CH2+CH2-

REFERENCE COUNT:

L9 ANSWER 25 OF 134 ACCESSION NUMBER: DOCUMENT NUMBER; TITLE:

RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

CAPLUS COPYRIGHT 2007 ACS ON STN
2000:388585 CAPLUS
133:17747

Preparation of 6-0-substituted erythromycins as
antibacterial agents
Or, Yat Sun, Clark, Richard F., Ma. Zhenkun,
Oriesgraber, George, Li. Leping, Chu. Daniel T.
Abbott Laboratories, USA
U.S., 128 pp., Cont.-in-part of U.S. Ser. No. 646,477,
abandoned.
CODEN: USXXAM
Patent
English
3

INVENTOR (S):

PATENT ASSIGNEE(S): SOURCE:

PAMILY ACC. NUM. COUNT: PATENT INFORMATION:

APPLICATION NO. PATENT NO. KIND DATE DATE US 6075011 CA 2253330 CA 2253330 WO 9742206 20000613 19971113 20060725 19971113 19970429 <--19970506 <--WO 1997-US7702 19970506 <--

<12/04/2007> Erich Leese

10/513699

	W:	ΑU,	BR,	CA,	CN,	CZ,	HU,	IL,	JP,	KR,	MX,	NZ						
	RW:	AT,	BE,	CH,	DE,	DK,	ES,	PI,	FR,	GB,	GR,	IE,	IT.	LU,	MC.	NL,	PT,	·SE
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AU	7260	15			B2	2	000	1026										
ZA	97038	94			A	1	9980	223	Z	A 1	997-	3894			1	9970	506	<
CN	12244	27			Α	1	9990	728	C	N 1	997-	1961	34		1	9970	506	<
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HU	99026	193			A2	1	999:	1228	н	UΊ	999-	2893			1	9970	506	<
HU	99028	193			A3	2	0000	1428										
EP	10075	30			A1	2	0000	614	E	P 1	997-	9246	05		1	9970	506	<
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AT	31001	0			т	2	005	1215	A	т 1	997-	9246	05		1	9970	506	
ES	22527	84			Т3	2	0066	9516	E	S 1	997-	9246	05		1	9970	506	
KR	20000	1080	00		A	2	0000	225	K	R 1	998-	7089	34		1	9981	106	<
PRIORITY	APPI	N. 3	INFO.	. :					U	S 1	996-	6464	77	1	92 1	9960	507	
									U	S 1	997-	B410	38	- 1	A 1	9970	429	
									w	0 1	997-1	US77	02	1	4 1	9970	506	

OTHER SOURCE(S): MARPAT 133:17747

Macrolide erythromycins I (R = Me substituted with CN, F, Carboxylate, sulfonate, amide, aryl, heteroaryl, substituted alkyl, alkenyl, alkynyl ;X = O, NOH, substituted oxime: Rl = H, OH, R2 = H, OH, halogen, amine, cycloalkyl, alkyl, aryl, o.CONIA-aryl, O.CONIA-beteroaryl, RSR4 = O, NOH, substituted oxime: R5 = OMe, F, OH; R6 = H, hydroxy protecting group) were prepared as antibacterial agents. Thus, I (R = allyl, Rl = R4 = OH, R2 = R3 = R6 = H, R5 = Me, X = O) was prepared and tested in vitro for its antibacterial activity (MIC = O.Ol to >100.) 198556-20-6P 198556-43-3P 198556-75-1P 198556-75-1P 198556-43-3P 198556-75-1P 198556-87-5P 271783-56-3P 271783-59-6P 271783-68-7P 273212-277-4P 273212-30-9P RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified), SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREF (Preparation); USES (Uses) (preparation of 6-O-substituted erythromycins as antibacterial agents)

<12/04/2007>

Erich Leese

198556-75-1 CAPLUS
Erythromycin, 6-0-(2-[3-methyl-4-(4-methylphenyl)-1-piperazinyl]ethyl][9C1) (CA INDEX NAME)

Absolute stereochemistry.

10/513699

198556-20-6 CAPLUS Erythromycin, 6-0-(3-(4-(4-chlorophenyl)-3-methyl-1-piperazinyl)-2-hydroxypropyll- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

198556-43-3 CAPLUS
Erythromycin, 6-0-[2-hydroxy-3-(4-(4-methoxyphenyl)-3-methyl-1-piperazinyl]propyl)- (9Cl) (CA INDEX NAME)

Absolute stereochemistry.

<12/04/2007>

Erich Leese

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198556-78-4 CAPLUS
Erythromycin, 6-0-[2-[4-(4-methoxyphenyl)-3-methyl-1-piperazinyl]ethyll(9CI) (CA INDEX NAME)

Absolute stereochemistry.

198556-87-5 CAPLUS Erythromycin, 6-0-[2-[4-(4-chlorophenyl)-3-methyl-1-piperazinyl]ethyl]-GCI) (CA INDEX NAMM)

Brich Leese

Absolute stereochemistry.

<12/04/2007>

271783-56-3 CAPLUS
Erythromycin, 14-hydroxy-6-0-(2-(3-methyl-4-(4-methylphenyl)-1-piperazinyl)ethyll- (9C1) (CA INDEX NAME)

Absolute stereochemistry.

271783-59-6 CAPLUS Erythromycin, 14-hydroxy-6-0-{2-[4-(4-methoxyphenyl)-3-methyl-1-piperazinyl|ethyl| (SCI) (CA INDEX NAME)

<12/04/2007>

Erich Leese

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273212-77-4 CAPLUS
Erythromycin, 6-0-(3-[4-(4-chlorophenyl)-3-methyl-1-piperasinyl]-2hydroxypropyl)-14-hydroxy- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

273212-80-9 CAPLUS
Erythromycin, 14-hydroxy-6-0-(2-hydroxy-3-[4-(4-methoxyphenyl)-3-methyl-1-piperazinyl)propyl)- (SCI) (CA INDEX NAME)

Absolute stereochemistry.

10/513699

Absolute stereochemistry.

271783-68-7 CAPLUS
Erythromycin, 6-0-[2-[4-(4-chlorophenyl)-3-methyl-1-piperazinyl]ethyl]-14hydroxy- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

<12/04/2007> Brich Leese

10/513699

PAGE 1-B

— оме

REFERENCE COUNT:

L9 ANSWER 26 OF 134 ACCESSION NUMBER: DOCUMENT NUMBER: TITLE;

INVENTOR(S):

THERE ARE 11 CITED REPERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE PORMAT 2000.241135 CAPLUS 1312.79106

What is a contraction and a contraction of the contract

PATENT ASSIGNEE(S): SOURCE:

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO.

<12/04/2007> Erich Leese

NO 200020358 A2 20000413 WO 1999-US18790 19990820 <
MC 2000020358 A3 20001116

M: AE. AL. AM, AT. AU. AZ. BA. BB. BG. BR. BY. CA. CH. CN. CU. CZ.
DE. DK. EE, ES. FI. GB. GD. GE. GH. GM. MR. HU, ID. IL. IN. IS.
JP. KE. KG. KP. KR. KZ. LC. LK. LR. LS. LT. LU, LV. MD. MG. MK.
MN. MM, MX, NO, NZ. PL. PT. RO. RU. SD. SE. SG. SI. SK. SL. TJ.
TM. TR. TT. UA. UG. US. UZ. VN. YU. ZA. ZW
RM. GM. KE. LS. MM. BD. SL. SZ. UG. ZM. AT. BE. CH. CY. DB. DK.
ES. FI. FR. GB. GR. IE. IT. LU, MC, NL, PT. SE. BP. BJ. CF. CG.
CI. CM, GA. NG. WH. MK. NE, SN. TD. TG
CA 2341346 A1 20000413 CA 1999-2341346 19990820 <
EP 1105120 A2 20010613 EP 1999-96610 19990820 <
EP 1105120 B1 20050323
R: AT. BE. CH. DE, DK. ES. FR. GB. GR. IT. LI, LU, NL, SE. MC, PT.
EE 51. LT. V. FI. RG
U 200103622 A2 20020617 EE 2001-102 19990820 <
EE 200100611 T2 20020621 TR 2001-20016031 19990820 <
ES 20106611 T2 20020621 TR 2001-20016031 19990820 < 19990820 <--19990820 <--19990820 <--19990820 <--HU 2001-3622 EE 2001-102 SI 1999-20076 TR 2001-200100631 JP 2000-574479 AU 2000-24709 NX 1999-509252 AT 1999-568010 RS 1999-968010 ND 2001-309 RO 20020429 20020617 20020630 20020821 20021022 20030410 20040528 20050415 20050801 19990820 <-19990820 <-19990820 <-19990820 <-19990820
19990820
19990820 HU 200103622 EE 200100102 SI 20746 TR 200100631 JP 2002535244 AU 759310 NZ 509252 AT 291423 ES 2237966 19990820 Ť3 19990820 20050801 20010411 20070112 20020822 20000821 20060905 20020320 20011231 20020425 20040115 ES 1999-968010
NO 2001-309
IN 2001-DN66
ZA 2001-831
MX 2001-763216
LV 2001-45
EG 2001-105362
LT 2001-24
US 2003-353160
US 1998-97520P
WO 1999-US18790
US 2001-763216 19990820
20010119 <-20010124
20010130 <-20010219 <-20010316 <-20010319 <-20010319 <-20010319 <-20030708
19980820 2001000309 NO 201000309
IN 20010N0066
2A 2010000831
WX 2001PA01834
US 7101878
LV 12732
HG 105362
LT 4904
US 2004010033
PRIORITY APPLN. INFO.: P 19980820 W 19990820 B3 20010220 US 2001-763216 OTHER SOURCE(S): MARPAT 132:279106

<12/04/2007>

Erich Leese

10/513699

263853-32-3 CAPLUS
Piperazine, 1-(4-methoxyphenyl)-2-methyl-4-([5-[(5,6,7,8-tetrahydro3,5,5,8,8-pentamethyl-2-naphthalenyl)methyll-2-furanyl]carbonyll- (9CI)
(CA INDEX NAME)

263855-06-7 CAPLUS
Piperazine, 1-(4-chlorophenyl)-2-methyl-4-[[5-([5,6,7,8-tetrahydro1,5,5,8,8-pentamethyl-2-naphthalenyl)methyl)-2-furanyl]carbonyl](9CI)
(CA IIDEX NAME)

L9 ANSWER 27 OF 134 CAPLUS COPYRIGHT 2007 ACS ON STN
ACCESSION NUMBER: 2000:210118 CAPLUS
DOCUMENT NUMBER: 132:237107
TITLE: Pressure.

INVENTOR (S) :

132;237107
Preparation of piperazino-substituted cyanophenyl derivatives as antiandrogen agents Taniguchi, Nobuaki, Kinoyama, isao, Kamikubo, Takashi, Toyoshima, Akira, Samizu, Kiyohiro: Kawaminami, Elji, Imamura, Masakazu, Moritomo, Hiroyuki, Matsuhisa, Akira, Hirano, Masakaki, Miyazaki, Yoji, Nozawa, Eisuke, Okada, Minoru, Koutoku, Kiroshi, Ohta, Mitauaki

Mitsuaki
Yamanouchi Pharmaceutical Co., Ltd., Japan; et al.
PCT Int. Appl., 65 pp.
CODEN: PIXXD2
Patent
Japanese
Japanese

Erich Leese

PATENT ASSIGNEE (S) : SOURCE:

DOCUMENT TYPE:

FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

10/513699

Non-peptide GnRH agents capable of inhibiting the effect of gonadotropin-releasing hormone are described. The compds. and their pharmaceutically acceptable salts, multimers, prodrugs, and active metabolites are suitable for treating mammalian reproductive disorders and steroid hormone-dependent tumors as well as for regulating fertility, where suppression of gonadotropin release is indicated. The compds. include those of formula I IX - C:O, C:S, S:O, or SOJ; Het - S-membered NOS-heterocycle; R1, R2 = H, alkyl; R3-R7 = H, halo, (unlaubstituted NOS-heterocycle; R1, R2 = H, alkyl; R3-R7 = H, halo, (unlaubstituted rings positions such as R6R7 may form (unlaubstituted S- or 6-membered ring with up to 4 heteroatoms; R8 = liopphilic moiety such as alkyl, aryl, ct., adjacent rings positions such as R6R7 may form (unlaubstituted S- or 6-membered ring with up to 4 heteroatoms; R8 = liopphilic moiety such as alkyl, aryl, ct., adjacent rings positions such as R6R7 may form (unlaubstituted S- or 6-membered ring with up to 4 heteroatoms; R8 = liopphilic moiety such as alkyl, aryl, ct., adjacent rings positions properly and the composition of the such as alkyl, aryl, ct., adjacent rings positions using Et S-(chloromethyl)-2-turoate (46 total yield), and the resulting esters were hydrolyzed to a mixture of acids. This unsepd. mixture was treated with SOCI2 and amidated with 24,6-trimethoxyphenylamine-HCl to give the invention compound II and its chroman-6-position isomer, which were separated by HBLC. Several compos. exhibited high affinity (<100 nM) at human GnRH receptors. The compds, antagonized GnRH-etimulated inositol phosphate accumulation in cells with recombinant human GnRH receptors, and an example compound reduced plasma tH levels in cestrated male rats. Various blol, data for several hundred compds, are given. 263853-05-0P 263853-23-3P 263855-06-7P P 263855-06-7P P 263855-06-7P P 263855-06-P 263855-06-P P 263855-06-P P

<12/04/2007>

Brich Leese

	TENT																	
WO	2000																	
	₩:	AE,	AL,	AM,	AT,	AU,	AZ,	BA,	88,	BG	, BR,	BY,	CA,	CH,	CN.	CR,	CU	,
		CZ,	DE,	DK,	DM,	EE,	gs,	PI,	GB,	GD	, GE,	GH,	GM,	HR,	ΗU,	ID.	IL	,
		IN,	IS,	JP,	KE,	KG.	KP,	KR,	KZ,	LC	. LK,	LR,	LS.	LT,	LU,	LV,	MD	
		MG,	MK,	MN,	MW,	MX.	NO,	NZ,	PL,	PT	, RO,	RU,	SD,	SE.	80,	SI.	SK.	
		SL,	TJ,	TM,	TR,	TT.	TZ,	UA,	υα,	US	, UZ,	VN,	YU,	ZA,	ZW,	AM,	AZ	
		BY,	KG,	KZ,	MD,	RU,	TJ.	TM										
	·RW;	GH,	GM,	KE,	LS,	MW.	SD,	SL.	SZ.	ΤZ	, ua,	ZW,	AT,	BE,	CH,	CY,	DE	
		DK,	ES,	FI,	FR,	GB,	GR,	IE.	IT,	LU	, MC,	NL,	PΤ,	SE,	BF,	ВJ,	CF.	
											, SN,							
CA	2345	146			A1		2000	0330		CA	1999-	2345	146		1	9990	921	٠
AU	9956	544			A1		2000	0410		ΑU	1999-	5654			1	9990	921	<
AU	7545	29			B2		2002	1121										
BR	9914	018			A		2001	0703		BR	1999-	1401	В		1	9990	921	٠٠٠
55	1122	242			A1		2001	0808		EP	1999-	9434	46		1	9990	921	<
	R:			CII,	DE,	DK.	ES,	PR,	GB,	QR	, IT,	LI,	LU.	NL,	SE,	MC,	PT	
		IE,																
JP	3390	744			B2		2003	0331			2000-							
JP	2003 1129	1378	73		A		2003	0514			2002-							
CN	1129	581			B		2003	1203		CN	1999-	8111	98		1	9990	921	
RU	2221	785			C2		2004	0120			2001-							
	6673										2001-				2	0010	321	
US	2004	0100	37		A1		2004	0115		US	2003-	6083	4.2		2	0030	630	
PRIORIT	Y APP	LN.	INFO	. :							1998-							
										JΡ	1999-	1553	98		A 1	9990	602	
											2000-							
											1999-							
										US	2001-	7676	72		A3 2	0010	321	
OTHER S		(S):			MAR	PAT	132:	2371	07									

The title compds. I (T1 = (CH2)N, T2 = (CH2)N, T3 = (NR4Y)mR5, R = cyano, etc., R3 = N, halo, etc., R2 = R4 = N, alkyl, etc., R5 = alkyl, etc., k, n = 1 - 3, m = 0 or 1, X = C0, etc., Z1, Z2 = CN, N, a proviso is given, Y = alkylene, etc.) are prepared These deriva. exhibit antiandrogen activities and are therefore useful in the prevention or treatment of prostatic cancer, prostatic hypertrophy and so forth. In an in vitro assay for inhibition of androgen binding to androgen receptors, (ZR,SS)-N-(2-bromo-4-pyridyl)-4-(4-cyano-3-trifluoromethylphenyl)-2,5-dimethylpiperazine-1-carboxamide showed the Ki value of 7.5 nM. 263294-07-59
RL: BAC (Biological activity or effector, except adverse), BSU (Biological study, unclassified); SPN (Synthetic preparation), THU (Therapeutic use); BIOL (Biological study), PREP (Preparation), USES (Uses)
(preparation of piperazino-substituted cyanophenyl deriva, as antiandrogen.

<12/04/2007> Brich Leese

<12/04/2007>

agenta) 262294-07-5 CAPLUS 1-Piperazinecarboxamide, (9CI) (CA INDEX NAME) 4-(4-cyanophenyl)-N-(2,4-difluorophenyl)-3-methyl-

REFERENCE COUNT:

THERE ARE 17 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L9 ANSWER 28 OF 134 ACCESSION NUMBER: DOCUMENT NUMBER: TITLE:

CAPLUS COPYRIGHT 2007 ACS on STN
2000:190924 CAPLUS
132:237088
Preparation of fused pyridine inhibitors of cGMP
phosphodiesterase
Macor, John E.; Yu, Guixue
Bristol-Myers Squibb Co., USA
PCT Int. Appl., 113 pp.
CODEN: PIXXD2
PAtent

INVENTOR(S): PATENT ASSIGNEE(S); SOURCE:

17

DOCUMENT TYPE:

COUNT:

FAMILY ACC. NUM. CO PATENT INFORMATION:

APPLICATION NO. DATE 19990913 <--DATE A1 20000123 MO 1999-U321070 19990913 AT. AU, AZ. BA, BB. BG, BR, BY, CA, CH, CN, CU, CZ, ES. F1. GB, GD, GE, GH, GM, HR, HU, ID. IL. III, IS, RP, RR, KZ, LC. LK, LK, LL, LL, TL, LU, LV, MO, MS, MK, NG, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, UA, UG, UZ, VN, YU, ZA, ZH, AH, AZ, BY, KG, KZ, MG, PATENT NO.

MO 200015222

M: AE. AL.

DE. DK.

F. E.

H. F.

R. U. TJ.

RH: GH. GM.

CI. CM.

US 6326379

CA 2342583

AU 9961438

AU 751486

EP 1113796 AM, EE, KG, MX, TT, TM KE, FR, GA, MM, SD. SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, GM, ML, MR, NE, SN, TD, TO 20011204 US 1999-191813 19990910 20000323 CA 1999-2342583 19990913 20000403 AU 1999-614138 19990913 LS, GB, GN, B1 A1 A1 B2 19990910 <--19990913 <--19990913 <--1990913 <-
R: AT, BE, CH, DE, DK, ES, PR, GB, GR, IT, LI, LU, NL, SE, MC, PT,

IE, SI, LT, LV, FI, RO

PRIORITY APPLM, INFO: OTHER SOURCE(S): MARPAT 132:237088

<12/04/2007

Brich Leese

10/513699

REFERENCE COUNT: THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L9 ANSWER 29 OF 134 CAPLUS COPYRIGHT 2007 ACS on STN .

ACCESSION NUMBER: 1999:691093 CAPLUS
DOCUMENT NUMBER: 111:310284
1TITLE: mediated cell adhesion inhibitors
INVENTOR(S): McCarthy, Clive; Harris, Nell Victor; Morley, Andrew David
BADERS ASSIGNES(S): Short-Boulanc Sover Limited IV

PATENT ASSIGNEE(S): SOURCE:

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT INFORMATION:

PATENT NO. KIND

W: AR. AL. AN. AT. F

DR. DK. ER. SS. F.

JP. KE. KG. KP. F

MN. MW. MX. NO. S

TM. TR. TT. UA. C

MD. RU. TJ. TM

RN: GH. GM. KE. LS. N

ES. FI. FR. GB. C

AU 9937164

PRIORITY APPLN. INFG: D DATE APPLICATION NO. DATE

1999)028 WO 1999-GB1230 19990421 <-AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ,
FI, GB, GD, GE, GH, GM, MR, HU, ID, IL, IN, IS,
KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK,
NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ,
UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, SZ, UG, ZM, AT, BE, CH, CY, DE, DK,
LU, MC, ML, PT, SE, BF, BJ, CF, CG,
NE, SN, TD, TG
AU 1999-37164 19990421
GB 1999-14117 A 19980421
US 1999-10413P P 19981014
US 1999-10423P P 19981014
WO 1999-GB1230 H 19990421 MW, SD, SL, GR, IE, IT, GW, ML, MR, 19991108 19990421 <-19980421
19980528
19981014
19981014
19990421

Erich Leese

OTHER SOURCE(S);

MARPAT 131:310284

10/513699

The title compds. II or II, B1 = OR1, SR1, NH-A1-cycloalkyl, etc., E2 = NH-A1-alkoxy, NH-A1-CO2alkyl, NH-A1-aryl, etc., R1 = A1-cycloalkyl, A1-alkoxy, NH-A1-CO2alkyl, NH-A1-aryl, etc., X2 = OA1R25, N(RS)AR2S, etc., X3 = OR9, OA10R9, NR9R10, etc., X2 = OA1R25, N(RS)AR2S, etc., X3 = OR9, OA10R9, NR9R10, etc., A1 = un)substituted alkylene, Y2 = N, CR6, Z = N, CR7 with the proviso that at least one of Y and Z = N, R3 = H, alkyl, cycloalkyl, etc., R6, R7 = H, alkyl, cycloalkyl, etc., R4 = H, 1 - or 3 - imidazolyl, etc., R4 = a direct bond, alkylene, alkynly, etc., R5 = N, alkyl, aryl, heteroaryl, etc., R5 = N, alkyl, aryl, heteroaryl, etc., R5 = N, alkyl, aryl, heteroaryl, etc., R5 = N, alkyl, eycloalkyl, aryl, heteroaryl, etc., R5 = N, alkyl, eycloalkyl, etc., R8, R10 = H, alkyl, cycloalkyl, etc., R6, R7 = N, alkyl, aryl, heteroaryl, etc., R5 = N, alkyl, eycloalkyl, etc., R8, R10 = H, alkyl, eycloalkyl, etc., R6, R7 = H, alkyl, eycloalkyl, etc., R9, R10 = H, alkyl, eycloalkyl, etc., R9, R10 = H, alkyl, eycloalkyl, etc., R9, R10 = H, except for the except alkyl, eycloalkyl, etc., R9, R10 = H, except for the except alkyl, eycloalkyl, etc., R9, R10 = H, except for the except alkyl, eycloalkyl, except for the except for the except for except

Piperazine, 4-[[4-[[(1R)-1-cyclohexylethyllamino]-1-ethyl-1H-pyrazolo[3,4-b]pyridin-5-yl]carbonyl]-1-(4-methoxyphenyl)-2-methyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

<12/04/2007>

Brich Leese

10/513699

Substituted diamines (I) iwherein R1 - lower alkyl or various combinations of substituents, such as (cyclo)alkyl, (cyclo)alkenyl, (cyclo)alkynyl, (heterolaryl(alkyl), etc., and linkage groups, such as (0), C(8), (un) substituted NHC(0) or NHC(8), S(0), S02, heteroaryldiyl, heterocycloalkylone, phenylone, etc., R2 = H or lower alkyl, R3 and R4 = independently H or (un)substituted alkyl, alkenyl, or alkynyl, or R3 and R4 = independently H or (un)substituted alkyl, alkenyl, or alkynyl, or R3 and R4 together may = (CI2)n or C(0)CH:CH; L1 = alkylene or (un)substituted (CIRIO)pAr(CHRIO)p, or LIN(R3) = (un)substituted alkylheterocyclo, or N(R2)L1 = (un)substituted heterocycloalkylene, cycloalkylene, or heterocycloalkylene, alkynylene, cycloalkylene, or heterocycloalkylene, or heterocycloalkylen

THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

CAPLUS COPYRIGHT 2007 ACS on STN 1999:350651 CAPLUS L9 ANSWER 30 OF 134 ACCESSION NUMBER:

<12/04/2007>

DOCUMENT NUMBER: TITLE:

INVENTOR (S) :

PATENT ASSIGNEE(S):

131:18929
Preparation of arylsulfonylheterocyclylhydroxamic acids and related compounds as matrix metalloprotease inhibitors
Barta, Thomas E., Becker, Daniel P.; Boehm, Terri L.; De Crescenzo, Gary A.; Villamil, Clara I., McDonald, Joseph J.; Freskos, John N.; Getman, Daniel P.
O.D. Searle and Co., USA
PCT Int. Appl., 840 pp.
CODEN; PIXXD2
Patent
English
5

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

ATE APPLICATION NO. DATE

A1 19990527 MO 1998-US23242 19981112 ...

1. OBA OD, GE, GH, GM, HR, HU, ID, IL, IS, JP, KE, LC, LK, LR, LS, LT, LU, LV, MD, MD, MK, MM, MM, MM, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, UZ, VN, VU, ZW

MM, SD, SZ, UG, ZM, AT, BE, CH, CY, DE, DK, ES, IE, IT, LU, MC, ML, PT, SE, BF, BJ, CF, CG, CI, ML, MR, NE, SN, TD, TG

1 19990527 CA 1998-2306450 19981112 <-19990507 AU 1999-13792 19981112 <-20001001 EP 1998-957485 19981112 <-20011017 JP 2000-521071

DK, ES, FR, GB, CR, IT, LI, LU, NL, SE, PT, IE, PI
20011017 NZ 1998-501485 19981112 <-20010018 NZ 1998-501485 19981112 <-20010018 NZ 1998-501485 19981112 <-20010019 NZ 1998-501485 19981112 <-20010019 NZ 1998-501485 19981112 <-20010019 NZ 1998-501485 19981112 <-20010018 NZ 1998-10142 19981112 <-20010016 US 1998-10412 200001016 PATENT NO. EMT NO. KIND
9925687 A1
W: AL, AM, AT, AU,
DK, EE, ES, FI,
AG, KP, KR, KZ,
MK, NO, NZ, PL,
TT, UA, UG, US,
FI, FR, GB, GR,
CM, AG, AG, AG, AG,
2106460 A1
9913732 A
756150 B2
9814641 A KIND WO 9925687 CA 2306460
AU 9913732
AU 756150
B2 2
BR 9814643
A 1 2
EP 1042290
A1 2
R: AT, BE, CH, DE, DK,
JP 2001521662
T
XZ 503445
AU 2250105
C2
A9 9810412
AU 2201014688
A1
NO 2000002469
A
MX 2000PA04660
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MX 2000PA04660
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T
5541489
B1
A1 BR 1999-14643
BR 1998-14643
GP 1998-957485
GB, GR, IT, LI, LV,
JP 2000-521071
JR 1998-501485
RU 2000-115948
ZA 1998-19412
US 1998-191129
NO 2000-2469
MX 2000-PA4660
US 2000-554082
US 2001-954451 19981112 <-19981112 <-SE, PT, IE, PI
19981112 <-19981112 <-19981113 <--19981113 <-19981113 <-20000512 <-20000512 <-20000731
20010917 <--20010816 20000712 20010930 20030401 20021128 20040615 20040311 20050510 20060420 NO 200002469
MX 2000PA04660
US 6541489
US 2002177588
US 6750233
US 2004048852
US 6890937
US 2006084688
PRIORITY APPLN. INFO.: US 2003-337942 20030107 US 2005-46645
US 1997-66007P
US 1998-95347P
US 1998-95501P
US 1998-101080P
MO 1998-US21242
US 1999-256948
US 2000-554082
US 2003-337942 20050128 P 19971114 P 19980804 P 19980806 P 19980918 W 19981112 B3 19990224 A3 20000731 A3 20030107 OTHER SOURCE(S): MARPAT 131:18929

<12/04/2007>

Erich Leese

10/513699

DOCUMENT TYPE: LANGUAGE: PAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PAT	TENT .	NO.			KIN	D	DATE			APPL	I CAT	NO	NO.		Þ	ATE		
	- -					-									-			
WO	9921	846			A2		1999	0506		WO 1	998-	US 2 2	665		1	9981	026	<
WO	9921	848			A3		1999	0715										
	₩;	AL,	AM,	AT.	AU,	AZ,	BA,	BB,	BG.	BR,	BY,	CA,	CH,	CN,	CZ,	DE,	DK,	
		EE,	ES,	FI,	GB,	GE,	GH,	GM,	HR,	KU,	ID,	IL,	IS,	JP,	KE,	KG,	KR,	
		KZ,	LC,	LK,	LR,	LS,	LT,	LU.	LV,	MD,	MG,	MK,	MN,	MW,	MX.	NO,	NZ.	
		PL.	PT.	RO.	RU.	SD.	SE.	sq,	SI,	SK,	SL,	TJ,	TM,	TR,	TT,	UA,	UG,	
		US.	UZ.	VN.	YU.	ZW.	AM.	AZ.	BY.	KG.	KZ.	MD.	RU.	TJ.	TM			
	RW:	OH.	GM,	KE.	LS.	MW.	SD.	SZ.	uo,	ZW,	AT,	BE.	CH,	CY,	DE,	DK,	ES.	
			FR,															
		CM.	GA,	QN,	GW.	ML.	MR,	NE,	SN,	TD,	TG							
UA	9911	223			A		1999	0517		AU 1	999-	1122	3		1	9981	026	<
PRIORITY	APP	LN.	INFO	. :						US 1	997-	9586	94		A 1	9971	027	

PRIORITY APPLM: IMPO.; US 1997-958694 A 19971027

OTHER SOURCE(S): MARPAT 130;311821

A Title compds., e.g., R1NR62122(CH2)mR [I; R - (un)substituted (hetero)aryl;
R1 = (un)substituted 1-isoindolyl, -1-isoquinolyl, etc., R6 = H or alkyl;
Z1 = alkylene, Z2 = piperidine or piperaine-1.4-dipl; m = 0-21 were
prepared Thus, 1-chloroisoquinoline was aminated by 4-(5-fluoro-2pyrimidinyl)-1-pyrazineethylamine (preparation given) to give I (R 5-fluoro-2-pyrimidinyl, R1 = 1-isoquinolyl, R6 = H, Z1 = CHZCH2, Z2 =
piperazine-1,4-diyl). Data for biol. activity of I were given.

IT 186345-30-2P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological actudy, PRE) (Preparation); USE (Uses)
RIOL (Biological study); PRE (Preparation); USE (Uses)
(preparation of 1-f(isoindolyl- and isoquinolylaminolalkyl)-4
arylpiperazines and analogs as dopamine D4 receptor ligands)
RN 186345-30-2 CAPLUS
CN 1H-7500indol-1-amine, N-[3-(3-methyl-4-phenyl-1-piperazinyl)propyl)-,
dihydrobromide. (9C1) (CA INDEX NAME)

● 2 HBz

<12/04/2007

L9 ANSMER 12 OF 114 CAPLUS COPYRIGHT 2007 ACS ON STN
ACCESSION NUMBER: 1999:235769 CAPLUS
DOCUMENT NUMBER: 110:338083
Hybridized and isosteric analogs of
N1-acetyl-N4-dimethylpiperazinium iodide (ADMP) and
N1-phenyl-N4-dimethylpiperazinium iodide (DMPP) with
central nicotinic action

Erich Leese

10/513699

A process for treating conditions associated with pathol. matrix metalloproteinase (MMP) activity comprises administration of compds.

having inhibitory activity against >1 of MMP-2, MMP-9, and MMP-11, while exhibiting substantially less inhibition of MMP-1. The compds. are of the form HONHOCORIR2502R3 [R1, R2 = H, R1R2 = atoms to form a 5-8 membered ring containing 1-3 heteroatoms; R3 = (substituted) arryl, heteroatyll. Thus, 4-PhoC6H4SH was heated in Me2SO to give the disulfide dimer, which in THF was added to a mixture of Et N-tert-butoxycarbonylisonipecotate (preparation given) and LDA in THF at -60° to room temperature to give 40° sulfide, which was exponified with MaOH in ECOM/HOLOH) to give 59° sulfone. The St ester was asponified with MaOH in ECOM/HOLOH to give 10° acid, which in DMF was treated with hydroxybenzotriazole, EDC, 4-methylmorpholine, and aqueous NNI2OH to give title compound (1). I inhibited MMP-2 with ICSO = 0.2 mM. 35947-12-7

35947-12-7
RI: RCT (Reactant); RACT (Reactant or reagent)
(preparation of arylsulfonylheterocyclylhydroxamic acids and related compds.
as matrix metalloprotease inhibitors)
35947-12-7 CAPLUS
Piperazine, 1-(4-methoxyphenyl)-2-methyl- (9CI) (CA INDEX NAME)

REFERENCE COUNT: THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L9 ANSWER 31 OF 134 ACCESSION NUMBER: DOCUMENT NUMBER: TITLE:

CAPLUS COPYRIGHT 2007 ACS on STN
1999:297413 CAPLUS
130:311821
Preparation of 1-[(isoindoly1- and
isoquinolylaminol|Akyl1-4-arylpiperatines and analogs
as dopamine D4 receptor ligands
He, Xiao-shu, De Costa, Brinn; Masley, Jan W. F.
Neurogen Corporation, USA
PCT Int. Appl., 48 pp.
CODEN: PIXXD2

INVENTOR(S): PATENT ASSIGNEE(S): SOURCE:

<12/04/2007>

Erich Leese

10/513699

AUTHOR (S) :

Manetti, Dina, Bartolini, Alemsandro, Borea, Pier Andrea, Hellucci. Cristina; Dei, Silvia, Ghelardini, Carla, Gualtieri, Fulvio; Romanelli, Maria Novelle, Scapecchi, Berena, Teodori, Eliasbetta; Varani, Katia Dipartimento di Science Parmaceutiche, Universita di Firenze, Florence, Sol21, Italy Bioorganic & Medicinal Chemistry (1999), 7(3), 457-465
CODEN, BMECEP, ISSN, 0968-0896
Elsevier Science Ltd.

CORPORATE SOURCE:

SOURCE:

7(3), 457-465
CODEN, BMECEP, ISSN: 0968-0896
PUBLISHER: Elsevier Science Ltd.
DOCUMENT TYPE: Journal
LANGUAGE; Elsevier Science Ltd.
Journal
LANGUAGE; English
AB A series of piperaxine derive., obtained by hybridization of
N1-acetyl-N4-dimethylpiperaxinium iodide (ADMP) and N1-phenyl-N4dimethylpiperaxinium iodide (DMPP) or of the covresponding tertiary bases
with arecoline and arecolone or by isosteric substitution of the Ph ring
of DMPP, has been synthesized. Hybridization afforded compds. that, both
as tertiary bases and as iodomethylates, have no affinity for the
nicotinic receptor. On the contrary, isosteric substitution gave compds.
that maintain affinity for the receptor; among them, 1-methyl-4-(3- or
4-pyridinyl) piperaxine show affinity in the manomolar range for the
nicotinic receptor. The pharmacol, profile of these laomeric compds, is
quite interesting as they present differences in their peripheral and
central effects, suggesting that they interact with different subtypes of
the nicotinic receptor.
TI 224189-00-8 P 224189-02-0P 224189-13-3P
224189-15-5P
RI: BAC (Biological activity or effector, except adverse), BSU (Biological
study, unclassified), RCT (Reactant), SBN (Bynthetic preparation), BIOL
(Biological study); PREP (Preparation), RACT (Reactant or reagent)
(hybridized and isosteric analogs of N1-acetyl- and
N1-phenyl-N4-dimethylpiperazinium iodide with central nicotinic action)
RN 224189-00-8 CAPLUS
CN 2-Piperazinecarboxylic acid, 4-methyl-1-phenyl-, methyl ester (9CI) (CA

2-Piperazinecarboxylic acid, 4-methyl-1-phenyl-, methyl ester (9CI) (CA

224189-02-0 CAPLUS 2-Piperarinecarboxylic acid. 4-methyl-1-phenyl-, ethyl ester (9CI) (CA INDEX NAME)

<12/04/2007>

224189-13-3 CAPLUS
Ethanone, 1-(4-methyl-1-phenyl-2-piperazinyl)- (9C1) (CA INDEX NAME)

224189-15-5 CAPLUS 1-Propanone, 1-(4-methyl-1-phenyl-2-piperazinyl)- (9CI) (CA INDEX NAME)

224189-01-9P 224189-03-1P 224189-14-4P
224189-16-6P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BSN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(hybridized and isosteric analogs of N1-acetyl- and N1-phenyl-N4-dimethylpiperazinium iodide with central nicotinic action)
224189-01-9 CAPLUS
Piperarinium, 3-(methoxycarbonyl)-1,1-dimethyl-4-phenyl-, iodide (9CI)
(CA INDEX NAME)

224189-03-1 CAPLUS Piperazinium, 3-(ethoxycarbonyl)-1,1-dimethyl-4-phenyl-, iodide (9CI) (CA INDEX NAME)

<12/04/2007>

Brich Leese

AUTHOR (S) .

Isosteric Analogs of Imidazoline
Le Bihan, Gaeelle, Rondu, Prederic; Pele-Tounian,
Agnes, Man Marchaelle, Mandu, Prederic; Pele-Tounian,
Agnes, Man Marchaelle, Mandu, Marchaelle, Mandu,
Marchaelle, Marchaelle, Marchaelle, Marchaelle,
Fruncz, Renard, Pierre; Guardola-Lemaitre, Beatrice;
Mancchez, Dominique; Penicaud, Luc; Ktorza, Alain;
Godfroid, Jean-Jacques
Laboratoire de Pharmacochimie Moleculaire et Systemes
Membranaires, Universite Paris 7-Denis Diderot, Paris,
75251, Fr.
Journal of Medicinal Chemistry (1999),
42(9), 1587-1603
CODEN; JMCMAR, ISSN: 0022-2623
American Chemical Society
Journal

CORPORATE SOURCE:

PUBLISHER; DOCUMENT TYPE:

LANGUAGE: AB Pipe

CODEN: JMCMAR, ISSN: 0012-2623

LISHER: American Chemical Society

DURBIT TYPE: Journal

RUNABE: English series of compassion of the compa

Brich Leese

10/513699

224189-14-4 CAPLUS Piperazinium, 3-acetyl-1,1-dimethyl-4-phenyl-, iodide (SCI) (CA INDEX NAME)

224189-16-6 CAPLUS Piperazinium, 1.1-dimethyl-3-(1-oxopropyl)-4-phenyl-, iodide (9CI) (CA INDEX NAME)

REFERENCE COUNT:

THERE ARE 47 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L9 ANSWER 33 OF 134 ACCESSION NUMBER: DOCUMENT NUMBER: TITLE:

CAPLUS COPYRIGHT 2007 ACS on STN
1999:234565 CAPLUS
131:18991
Design and Synthesis of Imidazoline Derivatives Active
on Olucose Homeostasis in a Rat Model of Type II
Diabetes 2. Syntheses and Hological Activities of
1,4-Dialkyl-, 1,4-0;benzyl, and 1-Benzyl-4-alkyl-2(4',5'-dihydro-1'H-imidazol-2'-yl)piperazines and

<12/04/2007>

Erich Leese

10/513699

226068-23-1 CAPLUS
2-Piperazinecarboxylic acid, 4-(1-methylethyl)-1-phenyl-, ethyl ester
(9C1) (CA INDEX NAME)

226068-29-7 CAPLUS
2-Piperazinecarboxylic acid, 1-(2-chlorophenyl)-4-methyl-, ethyl ester
(9CI) (CA INDEX NAME)

REFERENCE 'COUNT:

THERE ARE 44 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L9 ANSWER 34 OF 134 ACCESSION NUMBER:

SOURCE;

DOCUMENT NUMBER; TITLE:

RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT
1999:89740 CAPLUS
130:209646
Effect of Modifications of the Alkylpiperazine Moiety
of Trazodone on SHTAA and al Receptor Binding
Affinity
Oiannangeli, Marilena, Cazzolla, Nicola, Luparini,
Maria Rita, Magnani, Maurizio, Mabilia, Massimo,
Picconi, Giuseppe, Tomaselli, Mauro, Baiocchi, Leandro
Departement of Medicinal Chemistry, Angelini Ricerche
S.p.A., S. Palomba-Pomeria, 00040, Italy
JOURNAI of Medicinal Chemistry (1999),
42(3), 336-345
CODEN, JMCMAR, ISBN, 0012-2623
American Chemical Society
JOURNAI ESN;

CORPORATE SOURCE:

PUBLISHER: DOCUMENT TYPE: LANGUAGE: GI

<12/04/2007>

A series of triazolopyridine derivs were synthesized in order to explore the effect of modifications of the alkylpiperazine molety of trazodone on binding affinity for SHT2A and on receptors. All of the synthesized conds show a decrease of affinity for both SHT2A and on treceptors. So compared to trazodone, with the exception of I [R = Me, R] = H; R = H, R] = Me] these composes showed a decrease of affinity only for the interection. In the exception of I [R = Me, R] = H; R = H, R] = Me] the exception of I [R = Me, R] = Me] the exception of I [R = Me, R] = Me] the exception of I [R = Me, R] = Me] the exception of I [R = Me, R] = Me] the exception of I [R = Me, R] = Me] the exception of I [R = Me, R] = Me] the exception of I [R = Me, R] = Me] the exception of I [R = Me, R] = Me] the exception of I [R = Me, R] = Me] the exception of I [R = Me, R] = Me] cannot generate the metabolite 4-(3-chlorophenyl)piperazine this product was selected for further pharmacol. studies a study in the exception of I [R] the exception of I [R

220909-95-5 CAPLUS 1.2,4-Triazolo[4,3-a]pyridin-3(2H)-one, 2-[3-[4-(3-chlorophenyl)-3-methyl-1-piperazinyl]-2-methylpropyl]-, (2Z)-2-butenedioate (1:1) (9Cl) (CA

СМ

<12/04/2007>

Erich Leese

10/513699

220910-03-2P
RL: SPN (Synthetic preparation), PREP (Preparation)
(effect of modifications of the alkylpiperazine moiety of Trazodone on SHIZA and ut receptor binding affinity)
20910-03-2 CAPLUS
Piperazine, 1-(Chlorophenyl)-2-methyl-, monohydrochloride (9CI) (CA INDEX NAME)

THERE ARE 31 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT RECORD. ALL CITATIONS AVAI
L9 ANSWER 35 OF 134 CAPLUS COPYRIGHT 2007 ACS ON STN
ACCESSION NUMBER: 1999:14895 CAPLUS
DOCUMENT NUMBER: 130:95566
TITLE: Pressent

130:95566
Preparation of tropone derivatives for remedies/preventives for frequent urination/urinary

remedies/preventives for frequent urination/uri incontinence Koga, Ichiro; Narita, Kazuhisa, Okada, Atsushi Nispon Kayaku Kabushiki Kaisha, Japan PCT Int. Appl., 69 pp. CODEN: PIXXD2 Patent Japansee 1

INVENTOR (S): PATENT ASSIGNEE (S): SOURCE:

DOCUMENT TYPE:

FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

			and the second s
PATENT NO.	KIND DATE	APPLICATION NO.	DATE
WD 9900366	A1 19990107	WO 1998-JP2865	19980626 <
W: AU, CA, CN,	JP, KR, US		
RW: AT, BE, CH,	CY, DE, DK, ES, P	I, FR, GB, GR, IE,	IT, LU, MC, NL,
PT, SE			
CA 2294312	A1 19990107	CA 1998-2294312	19980626 <
AU 9879341	A 19990119	AU 1998-79341	19980626 <
AU 736510	B2 20010726	•	
EP 995741	· A1 20000426	EP 1998-929705	19980626 <
R: AT, CH, DE,	FR, GB, IT, LI, S	Ε	
US 6221868	B1 20010424	US 1999-446423	19991220 <
PRIORITY APPLN. INFO.:		JP 1997-186030	A 19970627
		JP 1997-225552	A 19970808
		JP 1997-256223	A 19970905
		WO 1998-JP2865	W 19980626
OTHER SOURCE(S);	MARPAT 130:95566		

Erich Leese

10/513699

CM 2

CRN 110-16-7 CMF C4 H4 O4

Double bond geometry as shown,

75348-33-3
RL: RCT (Reactant), RACT (Reactant or reagent)
(effect of modifications of the alkylpiperarine moiety of Trazodone on SHT2A and ul receptor binding affinity)

75348-33-3 CAPLUS Piperazine, 1-(3-chlorophenyl)-2-methyl- (9CI) (CA INDEX NAME)

IT

220909-98-8P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)
(effect of modifications of the alkylpiperazine moiety of Trazodone on
SHT7A and ol receptor binding affinity)
220909-98-8 CAPLUS
Piperazine; 4-(3-chloro-2-methylpropyl)-1-(3-chlorophenyl)-2-methyl(CA INDEX NAME) (9CI)

<12/04/2007>

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10/513699

AB Claimed are remedies/preventives for frequent urination/urinary incontinence which contain as the active ingredient compds. having a tropone skeleton or pharmacol. acceptable saits thereof and novel compds, having the tropone skeleton. The compds. having a tropone skeleton and showing the above pharmacol. effects are those represented by, for example, general formula [I, R1, R2 = hydrogen, (un)substituted lower alkyl or aryl, R3 = OR6 or NRTRs, wherein R5 = H, (un)substituted lower alkyl, aralkyl, or acyl, R7, R8 = H, optionally heteroatom-substituted lower alkyl, aralkyl, or acyl, R7, R8 = H, optionally heteroatom-substituted lower alkyl, aralkyl, or acyl, R7, R8 = H, optionally heteroatom-substituted lower alkyl or aryl, R4, R5 = H, lower alkyl, R12 = H, (un)substituted lower alkyl or aryl, R4, R5 = H, lower alkyl, R12 = H, lower alkyl, X = N, CH; Z = CH(ATI)(Ar2), (un)substituted Ph, CH2Ph, bencoyl, 2-pyridyl, or 2-pyrimidinyl, Arl, Ar2 = (un)substituted aryl, m = 1.2l. These compds. increase bladder volume and prolong urination-intervals by inhibiting urination reflex, does not exhibit the side effects of anticholinergic agents such as dry mouth and ischuria (retention of urine), and are effective for patients in whom increase in acropine-resistant contraction are noticed. Thus, J77 aqueous formalin solution

was added to a solution of 8.2 g hinokitiol. 7.8 mL 1-phenylpiperazine, and 2.9 mL AcOH in S mL MeOH and heated at 60° fro 2.5 h to give 7-(4-phenylpiperazinomethyl)-2.4.6-cycloheptatrien-1-one derivative (II, R = H), which was ethylated by di-Et suilate in the presence of K2COJ in accetone under reflux for 6 h to give II (R = Et). II (R = H) and II (R = Et) at 5 mg/kg iv. prolonged the ratio of interval of rat rhythmic bladder contraction before and after the administration of the compds. by the factor of 12.7 and 23.3, resp.

IT 219140: (Biological activity or effector, except adverse), RSU (Biological activity or effector, except adverse), RSU (Biological activity or effector, except adverse), RS

<12/04/2007>

phenyl-1-piperazinyl)methyl)- (9CI) (CA INDEX NAME)

2946-76-1P, 2-Methyl-1-phenylpiperazine
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)
(preparation of tropone deriva, for remedies/preventives for frequent
urination/urinary incontinence)
2946-76-1 CAPLUS
Piperazine, 2-methyl-1-phenyl- (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME)

THERE ARE 9 CITED REPERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L9 ANSWER 36 OF 134 ACCESSION NUMBER: DOCUMENT NUMBER: TITLE:

CAPLUS COPYRIGHT 2007 ACS on STN
1998:604657 CAPLUS
129:245169
Preparation of 1,4-disubstituted piperazines as alpha
1a adrenergic receptor antagonists
Bock, Marg G., Patane, Michael A.
Merck and Co., Inc., USA
U.S., 18 pp.
CODEN: USXXAM
Patent

INVENTOR (8):

PATENT ASSIGNEE(S); SOURCE:

DOCUMENT TYPE: LANGUAGE: FAMILY ACC, NUM, COUNT: PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE US 5807856
PRIORITY APPLN. INFO.:
OTHER SOURCE(S):
GI US 1996-747687 US 1996-747687 19961112 <--19980915 19961112 MARPAT 129:245169

. STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT .

<12/04/2007>

Erich Leese

10/513699

● HCl

135036-22-5P 191156-64-6P
RL: RCT (Reactant): BPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (preparation of 1.4-disubstituted piperazines as alpha la adrenergic receptor antagonists) 15016-22-5 CAPLUS
2-Piperazinecarbonitrile, 1-phenyl-4-(phenylmethyl)- (9CI) (CA INDEX NAME)

191156-64-6 CAPLUS 2-Piperazinecarbonitrile, 1-phenyl-, monohydrochloride (9CI) (CA INDEX

● HC1

REPERENCE' COUNT:

L9 ANSWER 37 OF 134 CAPLUS COPYRIGHT 2007 ACS ON STN ACCESSION NUMBER: 1998:352630 CAPLUS DOCUMENT NUMBER: 129:27960

DOCUMENT NUMBER:

Preparation of piperazine derivatives as tocolytic

10/513699

22-piperazinecarbonitrile, 4-[4-(1,1-dioxido-3-oxo-1,2-benzisothiazol-2(3H)-yl)butyl)-1-phenyl-, monohydrochloride (9CI) (CA INDEX NAME)

● HC1

191156-63-5 CAPLUS
Benzeneacetamide, N-[3-(3-cyano-4-phenyl-1-piperazinyl)propyl]-4-methyl4-(4-methylphenyl)-, monohydrochloride (9C1) (CA INDEX NAME)

<12/04/2007>

Erich Leese

TNURNTOR (S) .

oxytocin receptor antagonists
Bock, Mark G., Evans, Ben E., Culberson, J.
Christopher, Gilbert, Kevin P., Rittle, Kenneth B.,
Williams, Peter D.
Merck and Co., Inc., USA
U.S., 37 pp., Cont.-in-part of U.S., 5,464,788.
C

PATENT ASSIGNEE(S): SOURCE:

DOCUMENT TYPE:

Patent English

PAT	ENT 1	Ю.			KIN	_	DATE			APPL	I CAT	ION	NO.		D	BTA		
																	• • •	
US	57569	04			A		1998	0526		US 1	996-	7184	15		11	9960	923	<
US	5464	88			A		1995	1107		UB 1	994 -	2172	70		1:	9940	124	<
WO	95254	43			A1		1995	0928		WO 1	995-	US37	3.8		1	9950	323	<
	₩:	AM,	AU,	BB,	BG.	BR,	BY,	CA.	CN,	CZ,	EB,	PI.	GE,	KU,	IS,	JP,	KG,	
		KR,	XZ,	LK,	LR,	LT.	LV,	MD,	MO,	MN,	MX.	NO,	NZ.	PL,	RO.	RU,	80,	
		SI.	SK,	TJ,	TT.	UA,	US,	UZ										
	RW:	KE.	MW,	SD,	SZ.	υσ,	AT,	BE,	CH.	DE,	DK,	ES,	PR,	GB,	GR,	IB.	IT.	
		LU,	MC,	NL,	PT,	SE,	BF,	ВJ,	CF.	co,	CI,	CM,	GA,	GN,	ML,	MR.	NB,	
		SN.	TD,	TG														
PRIORITY	APPI	N.	INFO							US 1	994-	2172	70		A2 1	99403	24	
										NO 1	995-1	1637	3.8		W 1	99503	121	

OTHER SOURCE(S):

MARPAT 129;27960

The title compds, I (Y = SO2, (CH2)p,CO(CH2)p, etc.; p = 1-3; R = (un)substituted Ph, etc.; R1 = H, cyano, Ph, cONHR2, CONR3R2, etc.; R2 = H, C2-8 cycloalkyl or C1-5 alkyl; R14, R15 = C1-5 alkyl or alkoxy, halo; R16 = H or oxo) were prepared I are useful as oxytocin and vasopressin receptor antagonists. Thus, apiro(IH)lindene-1.4*-piperidine.HCl was treated with 2.4-dimethoxy-phenylacetic acid in the presence of EDC, HDT and ELN to give 1'-12.4-dimethoxyphenylacetyl)-spiro(IH)lindene-1.4*-piperidine, which showed ICSO of 400 mM for (IMI)oxycoin. 170932-79-00
RL: DAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SFN (Bynthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation) USES (Uses) (preparation of piperazine derivs, as tocolytic oxytocin receptor

<12/04/2007> Brich Leese

<12/04/2007>

antagonists)
170929-79-0 CAPLUS
Carbamic acid. [4-{2-{3-(2-hydroxyethyl)-4-(2-methylphenyl)-1-piperarinyl}-2-oxoethyl]phenyl}-1,l-dimethylethyl ester (9CI) (CA INDEX NAME)

170930-08-2P 170930-09-3P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation), RACT (Reactant or reagent)
(preparation of piperazine derivs. as tocolytic oxytocin receptor antagonists)
170930-08-2 CAPLUS
2-Piperazineethanol; 1-(2-methylphenyl)-4-(phenylmethyl)- (9CI) (CA INDEX NAME)

170930-09-3 CAPLUS 2-Piperazineethanol, 1-(2-methylphenyl)- (9CI) (CA INDEX NAME)

REFERENCE COUNT:

THERE ARE 34 CITED REPERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L9 ANSWER 38 OF 134 ACCESSION NUMBER: DOCUMENT NUMBER: TITLE: APLUS COPYRIGHT 2007 ACS on STN
1998:55616 CAPLUS
128:114961
Preparation of tetrahydrobenzindole derivatives for
the treatment or prevention of mental diseases
Koyama, Masao: Kikuchi, Chika; Ushiroda, Osamu; Ando,
Takashi; Nagaso, Kiroshi; Fuji, Kazuyuki; Okuno, INVENTOR (5):

<12/04/2007>

Erich Leese

10/513699

trihalomethyl or hydroxy; and n is an integer of from 2 to 6} are prepared 1 strongly inhibit [3H]-serotonin and [3H]-5-CT binding to the human serotonin 5-HT7 receptor subtype expressed in a cultured cell line and are useful for treating or preventing mental diseases. 2A-[4-[4-(2-methoxyphenyl)piperasinyl]butyl]-2a.1,4,5-tetrahydrobens(cd)indol-2-(1H)-one was prepared from 2a.3,4,5-tetrahydrobens(cd)indol-2-(1H)-one. In tests for affinity for the 5-HT7 receptors, compds. of this invention showed Ki values of 8.9 nH to 27 nM. The title compds. showed selective affinity for the 5-HT7 receptors.

201608-75-57 201608-76-69

RI, BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation of tetrahydrobenzindole derivs, for treatment or prevention of mental diseases)
201608-75-5 CAPLUS
Benzicdjindol-2(lih)-one, 2a,3,4,5-tetrahydro-2a-[4-(3-methyl-4-phenyl-1-piperazinyl)butyl]-, monohydrochloride (9CI) (CA INDEX NAME)

• HC1

201608-76-6 CAPLUS
Benz[cd]indol-2(1H)-one, 2a,3,4,5-tetrahydro-2a-[4-(3-methyl-4-phenyl-1-piperazinyl)butyll- (9Cl) (CA INDEX NAME)

<12/04/2007>

55117-80-1
RL: RCT (Reactant): RACT (Reactant or reagent)
(preparation of tetrahydrobenzindole deriva. for treatment or prevention of mental diseases)
5517-80-1 CAPLUS
Piperazine, 1-(4-chlorophenyl)-2-methyl- (SCI) (CA INDEX NAME)

Masayo, Hiranuma, Toyokazu Meiji Seika Kaisha, Ltd., Japan PCT Int. Appl., 67 pp. CODEN: PIXXD2 PATENT ASSIGNEE(S):

Patent

DOCUMENT TYPE: COUNT:

DATE DATE

##O 1997-JP2226 19970627

##O 1997-JP2226 1997-JP2226 19970627

##O 1997-JP2226 1997-JP2226 19970627

##O 1997-JP2226 1997-JP2226 1997-JP2226 19970627

##O 1997-JP2226 1997-JP2226 1997-JP2226 19970627

##O 1997-JP2226 1997 PATENT NO. KIND APPLICATION NO DATE MO \$800400 A1 19980108 MO 1997-JP2226 19970627 <-M: CA, JP, NO, US
RM: AT, BE, CH, DE, DX, ES, FI, FR, GB, GR, IB, IT, LU, MC, NL, PT, 6E
CA 2259218 A1 19980108 CA 1997-2259218 19970627 <--

19970627 <--

19970627 19970627 19981228 <--19981228 <--

PRIORITY APPLN. INFO.: JP 1997-96271 JP 1997-130201 JP 1997-144376 WO 1997-JP2226

OTHER SOURCE(S): MARPAT 128:114961

The title compds. I [A represents N, CH, C having a double bond or CR5, B and Z independently represent each N, CH or CR1, provided that A is N when B and/or Z is N, RI represents hydrogen, halogeno, lower alkyl, cyano, trihalomethyl, hydroxy, slkoxy, alkylthio, alkylsulfenyl, alkylaulfonyl, alkylaulfonyl, sulfamoyl, optionally substituted amino, optionally alkylated carbamoyl, acyl or carboxy, RI represents hydrogen or lower alkyl, RI represents hydrogen, lower alkyl, RI represents hydrogen, lower alkyl, RI represents hydrogen, lower alkyl, alkoxy, acyl, alkoxycarbonyl, nitro, optionally substituted amino, optionally alkylated carbamoyl or acyloxy, RI represents lower alkyl, cyano, carbamoyl, carboxy, acyl, acyloxy, alkoxy, alkoxycarbonyl,

<12/04/2007>

Brich Leese

10/513699

2946-76-1P 201609-32-7P 201609-33-8P
RL: RCT (Reactant), SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)
(preparation of tetrahydrobenzindole derivs. for treatment or prevention of mental diseases)
2946-76-1 CAPLUS
Piperazine, 2-methyl-1-phenyl- (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME)

201609-32-7 CAPLUS

2-Piperazinecarbonitrile, 1-phenyl- (9CI) (CA INDEX NAME)

201609-33-8 CAPLUS 2-Piperazinecarboxamide, 1-phenyl- (9CI) (CA INDEX NAME)

<12/04/2007>

THERE ARE 22 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L9 ANSWER 39 OF 134 ACCESSION NUMBER: CAPLUS COPYRIGHT 2007 ACS ON STN 1998:13943 CAPLUS

DOCUMENT NUMBER: TITLE:

128;61522
Preparation of fused heterocyclic compounds as antagonists of D2 and D4 receptors
Kuroita, Takanobu, Togo, Yoshifumi; Ishibuchi, Seigo, Fujio, Masakaru, Putamura, Takashi
Yoshitomi Pharmaceutical Industries, Ltd., Japan
PCT Int. Appl., 176 pp.
CODEN: PIXXD2
Parent INVENTOR (S):

PATENT ASSIGNEE (S) :

DOCUMENT TYPE: LANGUAGE: FAMILY ACC, NUM. COUNT: PATENT INFORMATION: Patent Japanese 1

PATENT NO. KIND DATE APPLICATION NO. DATE 19971218 WO 1997-JP1993 19970609 <--19971218 WO 1997-JP1993 19970509

GB, GE, GH, HU, IL, IS, JP, KE, KG, KR, KZ, LC, LU, LLV, MD, MG, MK, MN, MM, MK, NO, NZ, PL, PT, SG, SI, SK, TJ, TM, TR, TT, UA, UG, US, UZ, VK, KG, KZ, MD, RU, TJ, TM
SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, OA, ON, TD, TD

19980107 AU 1997-29807

199705024

20040524 JP, 1942-561425

AU 1997-29807 JP 1998-501435 JP 1996-149620 WO 1997-JP1993 19970609 <--20040524

OTHER SOURCE(S): MARPAT 128:61522

Fused heterocyclic compds, represented by general formula [I, X1-X2-X3 * NCRIN, CRICR2N, NCRICR2, CRINCR2, NNCRI, R1, R2 * H. alkyl, OH, MH2, arylalkyl, (un) substituted aryl or 'heteroaryl, A * linear or branched and (un) substituted C1-4 alkyl, Y * O, S, 50, SO2, (un) substituted NH, B * linear or branched alkyl and (un) substituted C1-4 alkyl, ene Z * O, S, SO, SO2, (un) substituted NH, CH(OH), CO, CH2; D * linear or branched alkyl

<12/04/2007>

Erich Leese

55117-80-1
RL: RCT (Reactant), RACT (Reactant or reagent)
(preparation of fused heterocyclic compds, having antagonism for D2 and D4
receptors as antipsychotics)
55117-80-1 CAPLUS
Piperazine, 1-(4-chlorophenyl)-2-methyl- (9CI) (CA INDEX NAME)

200413-37-2P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)
(preparation of fused heterocyclic compds. having antagonism for D2 and D4
receptors as antipsychotics)
200413-37-2 CAPLUS
1-Piperaxinaecetamide, 4-(4-chlorophenyl)-3-methyl-N-(5,6,7,8-tetrahydro-4quinazolinyl)- (9CI) (CA INDEX NAME)

Erich Leese

L9 ANSWER 40 OF 134 CAPLUS COPYRIGHT 2007 ACS on STN ACCESSION NUMBER: 1997:746060 CAPLUS

10/513699

C1-8 alkylene, R = heterocyclyl, e.g., Ol, wherein O-T = (CH2)n, CH2CH, CH1C; wherein R7 = H, alkyl, R8 = (unisubstituted aromatic hydrocarbyl or heterocyclyl) or optical isomers or pharamaceutically acceptable salts thereof are prepared Also claimed are medicinal compns. comprising these compds. and pharamaceutically acceptable additives, and drugs comprising these compds. These compds. exert more potent blocking effects on D4 receptors than on D2 receptors. Moreover, they have high affinities for receptors than on D2 receptors. Moreover, they have high affinities for receptors than on D2 receptors. Moreover, they have high affinities for receptors than on D2 receptors and application of the scattering of the composition of the conventional antipsychotic agents avide internal secretion observed in association with the administration of the conventional antipsychotic agents having only D2 receptor antagonism. The above compds. are usable as remedies for discases such as schizophrenia, Thus, N-(5, 6, 7, 8-tetrahydroquinasolin-4-yl)-2-chlorocactamide (preparation given) and N-(4-chlorophenyl)piperazine hydrochloride were dissolved in DMF and stirred with X2O3 and RI at room temperature for 24 ht ogive N-(5,6,7,8-tetrahydroquinasolin-4-yl)-2-(4-chlorophenyl)piperazin-1-yllacetamide, which was reduced by LiAllH in THF at room temperature for 30 min to give the title compound (II). II and another compound tested in vitro showed affinity for D2 and D4 receptors of nerve synapses membrane with Xi value of 25 nM and 0.01-1 nM, resp.

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study), PREP (Preparation), USES (Uses) (preparation of fused heterocyclic compds. having antagonism for D2 and D4 receptors as antipsychotics)

200412-33-5 CAPLUS
4-Quinazolinamine, N-[2-[4-(4-chlorophenyl)-3-methyl-1-piperazinyl]ethyl]5,6,7,8-tetrahydro- (9CI) (CA INDEX NAME)

<12/04/2007>

Brich Leese

10/513699

DOCUMENT NUMBER: 127:359051 127:359051
Preparation of 6-O-substituted erythromycins as bactericides
Or. Yat Sun, Clark, Richard P.; Ma, Zhenkun, Griesgraber, George, Li, Loping, Chu, Daniel T. Abbott Laboratories, USA
PCT Int. Appl., 225 pp.
CODEN. PIXXD2
Patent
English
3
3
3
3

INVENTOR (S):

PATENT ASSIGNEE(S): SOURCE:

DOCUMENT TYPE: LANGUAGE:

FAMILY ACC. NUM. COUNT: PATENT INPORMATION:

	PAT	ENT	NO.			KIN		DATE			APP	LICAT	11 ON	NO.					
																-			
	WO	9742	206			A1		1997	1113	1	WO :	1997	· US7	102		1	9970	506	<
		W:	AU,	BR,	CA,	CN,	CZ.	HU,	IL,	JP,	KR.	, MX	, NZ						
		RW:	AT,	BE,	CH,	DE.	DK.	ES,	PI.	FR,	GB	GR	. IE	IT,	LU,	MC,	NL,	PT.	, SE
	US	6075	011			A		2000	0613		បទ	1997	-8410	38		1	9970	429	<
	CA	2253	330			A1		1997	1113		CA :	1997	- 225	1330		1	9970	506	<
	CA	2253	330			C		2006	0725										
	ΑU	9729	987			А		1997	1126		AU :	1997	- 2991	17		1	9970	506	<
	ΑU	7260	75			B2		2000	1026										
	ВŘ	9708	929			A		1999	0803		BR :	1997	8929	1		1	9970	506	<
	ВÞ	1007	530			A1		2000	0614		ED :	1997	924	05		1	9970	506	<
	EР	1007	530			B1		2005	1116										
		R:	AT,	BE,	CH,	DE,	DK.	ES,	PR,	GB,	GR.	, IT	. LI	LU,	NL,	SE,	PT.	IB.	. PI
		3323												20					
	JΡ	2002	5150	34		т		2002	0521		JP :	1997	- 540:	64		1	9970	506	<
	AΤ	3100	10			т		2005	1215		AT :	1997	924	05		1	9970	506	
PRIOR	TTY	APP	LN.	INFO.	. ;						US	1996	6464	77		A 1	9960	507	
											US :	1997	- 8410	38		A 1	9970	429	
											WO .	1997	· U97	102		W 1	9970	506	

OTHER SOURCE(S); MARPAT 127:359051

Antimicrobial erythromycins, e.g. I (X=0, NOH, NOR, R=alkyl, aralkyl, cycloalkyl, arylsilyl, Rl, Rl = H, OH, Rl = OMo, P, OH, Rl, RS = one is H and the other is OH, alkyl, aralkyl, sulfone, R4, R5 = X, R6 = H, hydroxy protecting group, R7 = P, alkyl, alkenyl, alkynyl sulfone, amide), were

10/513699

prepared as bactericides. Thus, I (X = O; R1 = R4 = OH; R2 = R5 = R6 = H; R3 = OM; R7 = Pr) was prepared and tested for its in vitro antibacterial activity of the second of the second

Absolute stereochemistry.

198556-43-3 CAPLUS
Erythromycin, 6-0-[2-hydroxy-3-[4-(4-methoxyphenyl)-3-methyl-1-piperazinyl]propyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

<12/04/2007>

Erich Leese

10/513699

198556-78-4 CAPLUS Erythromycin, 6-0-[2-[4-(4-methoxyphenyl)-3-methyl-1-piperazinyl]ethyl]-(9C1) (CA INDEX NAME)

Absolute stereochemistry.

198556-87-5 CAPLUS Erythromycin, 6-0-[2-[4-(4-chlorophenyl)-3-methyl-1-piperazinyl]ethyl]-[9C1] (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A

198556-75-1 CAPLUS Erythromycln, 6-0-[2-[3-methyl-4-(4-methylphenyl)-1-piperazinyl]ethyl]-(SCI) (CA INDEX NAME)

Absolute stereochemistry.

<12/04/2007>

Erich Leese

10/513699

L9 ANSWER 41 OF 134
ACCESSION NUMBER:
DOCUMENT NUMBER:
1997:584389 CAPLUS
117:358876
Preparation of heterocyclylphenoxyalkanoates and analogs as cell aggregation inhibitors
Himmelabach, Prank, Guth, Brian, Meisenberger,
JOhanner
PATENT ASSIGNEE(9):
SOURCE:
DOCUMENT TYPE:
LANGUAGE:
PAMILY ACC. NUM. COUNT:
1
CAPLUS COPYRIGHT 2007 ACS ON STN
1997:584389 CAPLUS
1971:18876
Preparation of heterocyclylphenoxyalkanoates and analogs as cell aggregation inhibitors
Linz, Johnner, Austral, Weisenberger,
JOhanner
DOCUMENT TYPE:
LANGUAGE:
PATENT ACC. NUM. COUNT:
1

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

	in or																	
PA?	TENT	NO.					DATE			APPL	ICAT	ION	NO.		D	ATE		
						-												
HO	9737	975			A1		1997	1016		WO 1	997-	EP169	98		1:	9970	404	<
	W;	AL,	AM,	AT,	AU,	AZ,	BA,	BB,	BG.	BR,	BY,	CA,	CH,	CN,	CU,	cz.	DE.	
		DK,	EB.	ES,	FI,	GB.	Œ,	нU,	IL.	IS.	JP,	KE,	KG,	KP,	KR.	KZ,	LC,	
		LK,	LR,	Ls.	LT,	LU,	LV,	MD,	MG,	MK,	MN,	MW,	MX.	NO,	NZ,	PL,	PT,	
		RO,	RU,	SD,	SE,	SG,	SI,	SK,	TJ,	TM,	TR,	TT.	UA,	UG,	UZ,	VN,	YU,	
		AM.	AZ,	BY,	KG,	KZ,	MD.	RU,	TJ,	TM								
	RW:	GH,	KE,	Ls.	MW,	SD,	92,	va,	AT,	BE,	CH,	DE.	DK,	ES,	FI,	FR,	ŒΒ,	
		GR,	IE,	IT,	LU,	MC,	NL.	PT,	SE,	BP,	BJ,	CF.	CG,	CI,	CM,	GA,	GN,	
		ML,	MR,	NE,	SN,	TD,	TG											
DE	1961	4204			A1		1997	1016		DE 1	996-	1961	1204		1	9960	410	٠
US	5994	356			A		1999	1130		US 1	997-	8322	59		1	9970	403	٠٠٠
CA	2244	860			A1		1997	1016		CA 1	997-	2244	860		1	9970	404	<
ΑU	9726	368			A		1997	1029		AU 1	997-	2636	В		1	9970	404	<
EP	8927	83			A1		1999	0127		EP 1	997-	9181	13		1	9970	404	٠
	R:	AT,	BE,	CH,	DE,	DK.	ES,	PR.	gB,	GR,	IT.	LI.	LU,	NL.	SB.	MC.	PT.	

<12/04/2007> Erich Leese

<12/04/2007>

IE, PI JP 2000508307 ZA 9703002 PRIORITY APPLN. INFO.:

20000704 19981009

JP 1997-535832 ZA 1997-3002 DE 1996-19614204 WO 1997-EP1698

OTHER SOURCE(S):

MARPAT 127:358876

RIZIZZZJZ4ZSR [I: R = OH. alkoxy. OPh. etc.; R1 = H. (phenyl)alkyl. etc.;
Z1 = (oxo)piperazine-1.4-diyl. (oxo)piperidine-1.4-diyl. Z2 = CHZCH2.
COCH2. NHCO. CO2. etc.; Z3 = (un)substituted (oxo)piperazine-1.4-diyl.
-(oxo)piperidine-1.4- or 4.1-diyl., -cyclohexylene. etc.; Z4 =
piperidinediyl. phenylene. cyclohexylene. etc.; Z5 = OCH2CO.
CH2CO. etc.] were prepared Thus, Me 4-piperazinophenoxyacetate was
N-alkylated by 2-(1-tert-butoxycarbonyl-4-piperidinyl)ethyl
methaneaulfonate and the product converted in 2 steps to give title compound
II.2HCl. Data for biol. activity of I were given.
188628-02-7P 198627-21-3P 198627-8-PP
198627-21-3P 198627-41-7F vity or effector. except adverse), BSU (Biological
Study. unclassified), SPN (synthetic preparation); THU (Therapeutic use);
BIOL (Biological and SPN (synthetic preparation); THU (Therapeutic use);
BIOL (Biological heberocyclylphenoxyalkanoates and analogs as cell
speciation inhibitors)
198628-02-7 CAPLUS
Acetic acid, (4-12-methyl-4-12-(4-piperidinyl)ethyl)-1piperazinyllphenoxyl-, dihydrochloride (9CI) (CA INDEX NAME)

●2 HC1

198636-25-4 CAPLUS Acetic acid, (4-12-methyl-4-[2-(4-piperidinyl)ethyll-1-piperazinyllphenoxyl-, methyl ester, dinydrochloride (9CI) (CA INDEX

<12/04/2007>

Erich Leese

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35947-12-7, 1-(4-Methoxyphenyl)-2-methylpiperazine
RL: RCT (Reactant); RACT (Reactant or reagent)
(preparation of heterocyclylphenoxyalkanoates and analogs as cell
aggregation inhibitors)
35947-12-7 CAPLUS
Piperazine, 1-(4-methoxyphenyl)-2-methyl- (9CI) (CA INDEX NAME)

198627-59-7P 198627-60-0P 198627-62-2P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)
(preparation of heterocyclylphenoxyalkanoates and analogs as cell
aggregation inhibitors)
198627-59-7 CAPLUS
1-Piperaxinecarboxylic acid, 4-(4-hydroxyphenyl)-1-methyl1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

198627-60-0 CAPLUS
1-Piperazinecarboxylic acid, 4-[4-(2-methoxy-2-oxoethoxy)phenyl]-3-methyl1,1-dimethylethyl eater (9C1) (CA INDEX NAME)

198627-62-2 CAPLUS
Acetic acid, [4-(2-methyl-1-piperazinyl)phenoxy]-, methyl ester.
monoftrilluoroacetate) (9CT) (CA INDEX NAME)

CM 1

10/513699

● 2 HC1

198626-78-7 CAPLUS 1-Piperidinecarboxylic acid, 4-[2-[4-[4-(2-methoxy-2-oxocthoxy]phenyl]-1-methyl-1-piperazinyl]ethyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

198627-21-3 CAPLUS
Acetic acid, [4-[2-methyl-4-[2-(4-piperidinyl)ethyl]-1piperazinyl]phenoxyl-, cyclohexyl ester, dihydrochloride (9CI) (CA INDEX
NAME)

●2 HC1

198627-41-7 CAPLUS Acetic acid, [4-[2-methyl-4-[2-(4-piperidinyl)ethyl]-1-piperazinyl|phenoxy|- (9CI) (CA INDEX NAME)

<12/04/2007>

Brich Leese

10/513699

2

CRN 76-05-1 CMF C2 H F3 O2

L9 ANSWER 42 OF 134 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER:
DOCUMENT NUMBER:
137:50667
TITLE:
17YENTOR(S):
PATENT ASSIGNEE(S):
50CK, Mark G., Patane, Michael A.
Merck and Co., Inc., USA, Bock, Mark G., Patane,
Michael A.
PCT Int. Appl., 59 pp.

SOURCE: PCT Int. Appl., 59 pp. CODEN: PIXXD2

DOCUMENT TYPE: COPEN: 1
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

WO 9718209 A1 19970522 WO 1996-U318346 19961112
WH AL, AM, AU, AZ, BA, BB, BG, BR, BY, CA, CN, CU, CZ, EE, GE, HU,
IL, 18, JP, KO, KR, KZ, LC, LK, LT, LY, MD, MK, MN, MX,
NO, NZ, PL, RO, RU, SG, SI, SK, TJ, TM, TR, TT, UA, US, UZ, VN,
AM, AZ, BY, KO, KZ, MD, RU, TU, TM
RN: KK, LE, MM, BD, SZ, VG, CR, TI, TM, TR, TT, UA, US, UZ, VN,
AM, AZ, BY, KO, KZ, MD, RU, TU, TM
RN: KK, LE, MM, BD, SZ, VG, AT, BE, CH, DE, DK, ES, TI, FR, GD,
MR, NE, SN, TD, TG
19970605 AU 1996-77344
PRIORITY APPLN, INPO.: 19961112 <--

AU 1996-77344 US 1995-7964P GB 1996-5165 WO 1996-U818346

19961112 P 19951115 A 19960312 W 19961112

OTHER SOURCE(S):

<12/04/2007>

MARPAT 127:50667

· STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT ·

The title compds. [I, W = (un)substituted Ph. pyridyl, thienyl, etc., Rl. R2 = N, CN. Chirags, CO2R4, SO2R4 (wherein R4, R5 = N, Cl. 148, L2, Cl. 28 alkyl, C3-8 cyclonlkyl), Rl = II, III (wherein R6 = N, Cl. R7 = C1-8 alkyl, C3-8 cyclonlkyl), Rl = II, III (wherein R6 = N, Cl. R7 = C1-8 alkyl, etc., T, U, X, Y, Z = N, halo, Cl.=8 alkyl, C3-8 cycloalkyl, etc., n = 2-6)] and their salts, selective alpha 1a adrenergic receptor antagonists and useful in the treatment of benign prostatic hyperplasia, were prepared. Thus, reaction of 2-cyano-lyhenylpiperazine with 4-bromoburylsaccharin in the presence of Etk[Pr]2 in DMF afforded IV.NCl which Ki of 300 nM against alpha la adrenergic receptor binding. Compds. I are selective in their ability to relax smooth muscle tissue enriched in the alpha la receptor subtype without at the same time inducing orthostatic hypotension. One such tissue is found surrounding the urethral lining. Therefore, one utility of the instant compds. is to provide acute relief to males suffering from benign prostatic hyperplasia, by permitting less hindered urine flow. Another utility of the instant compds. is provided by combination with a human 5-alpha reductase inhibitory compound, such that both acute and chronic relief from the effects of benign prostatic hyperplasia are achieved.

191156-62-47 191156-63-59
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, pREP (Preparation), USES (Uses) (preparation of piperazine derivs as alpha la adrenergic receptor antagonists)

191156-62-4 CAPLUS

2-Pleprazinecarbonitrie, 4-[4-(1,1-dioxido-3-oxo-1,2-benzisothiazol-2(3H)-yllbutyl-1-phenyl-, monohydrochloride (9CI) (CA INDEX NAME)

191156-62-4 CAPLUS
2-Piperazinecarbonitrile, 4-[4-(1,1-dioxido-3-oxo-1,2-benzisothiazol-2(3H)-yl)butyl}-1-phenyl-, monohydrochloride (9CI) (CA INDEX NAME)

● HC1

191156-63-5 CAPLUS

Benzeneacetanide, N-(3-(3-cyano-4-phenyl-1-piperazinyl)propyl)-4-methyla-(4-methylphenyl)-, monohydrochloride (9CI) (CA INDEX NAME)

<12/04/2007>

Erich Leese

10/513699

Ann Merck and Co., Inc., USA, Bock, Mark G.; Patane, Michael A.; Ponticello, Rose Ann PCT Int. Appl., 50 pp. CODEN: PIXXO2 PATENT ASSIGNEE (S): SOURCE . DOCUMENT TYPE: Patent English

LANGUAGE:

PAMILY ACC. NUM. CO PATENT INFORMATION: COUNT:

DATE APPLICATION NO. PATENT NO. PATENT NO. KIND DATE APPLICATION NO. DATE

MO 9717967

M: AL, AM, AU, AZ, BA, BB, BG, BG, BR, BY, CA, CN, CU, CZ, EZ, GE, HU,

IL, 15, JP, KG, KR, KZ, LC, LK, LR, LT, LV, MD, MG, MK, MM, MX,

NO, MZ, PI, RO, RU, SG, SI, SK, TJ, TM, TR, TT, UA, US, UZ, VN,

AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, TM, TR, TT, UA, US, UZ, VN,

RM; KE, LS, MM, SD, SZ, UG, AT, BB, CH, DB, DK, ES, FI, FR, GB, GR,

LT, LU, MC, NL, PT, SE, BP, NJ, CF, CG, CI, CM, GA, GN, ML,

MR, NE, SN, TD, TO

CA 2235370

AU 397343

AU 397343

AU 397343

AU 397343

AU 397343

AU 3990023

EP 396-240465

BP 365280

AI 3990023

EP 1996-404065

BP 365280

AI 3990023

PRIORITY APPLIN, INFO:

US 1993-6765P

US 1994-6215

US 1994-6477

19990622 <-
PRIORITY APPLIN, INFO:

US 1995-6765P

P 3995-195 KIND EP 1996-940465 19961112 <-, GR, IT, LI, LU, NL, SE, PT, IE, PI
JP 1996-51991 19961112 <-US 1995-66477 19980422 <-US 1995-6765P P 19951115
06 1996-1423 A 19960219
WO 1996-US18321 W 19961112 OTHER SOURCE(S): MARPAT 127:65787

<12/04/2007>

I [A = CR2, N; X = C, N, but when X = N, R1 is absent; R1 = H, halo, alkyl, haloalkyl, alkoxy. cyano, CONR4R5, cycloalkyl, R2 = H, cyano, CONR4R5, CO2R4, 802R4, R4, R5 = H, alkyl, cycloalkyll were prepared as alpha la adrenergic receptor antagonists (no data). I may be used for treating benign prostatic hyperplasia (no data). E.g., reaction of (CLG2CH2)2N(BOC) and 2-CLGCBHCM2CO in THF/DMF/PAH, followed by treatment of the piperidine product with NC1/HOAc gave 4-(2-chlorophenyl)-4-cyanopiperidine hydrochloride.

135016-22-5P

RL: BAC (Biological activity or effector, except adverse), BSU (Biological study, unclassified); RCT (Reactant), SPN (Synthetic preparation), THU

10/513699

● HC1

135036-22-5P 191156-64-6P
RL: RCT (Reactant): SPN (synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of piperazine derivs. as alpha la adrenergic receptor antagonists)
135036-22-5 CAPLUS
2-Piperazinecarbonitrile, 1-phenyl-4-(phenylmethyl)- (9CI) (CA INDEX NAME)

191156-64-6 CAPLUS 2-Piperazinecarbonitrile, 1-phenyl-, monohydrochloride (9CI) (CA INDEX

L9 ANSWER 43 OF 134 CAPLUS COPYRIGHT 2007 ACS ON STN
ACCESSION NUMBER: 1997:4431299 CAPLUS
DOCUMENT NUMBER: 127:65787
TITLE: Prenaranton

Preparation of piperazine and piperidine derivatives as alpha la adrenergic receptor antagonists Bock, Mark G., Patane, Michael A., Ponticello, Rose

INVENTOR (S)

<12/04/2007>

Brich Leese

(Therapeutic use), BIOL (Biological study), PREN (Preparation), RACT (Reactant or reagent), USES (Uses) (preparation of piperazine and piperidine derivs. as alpha la adrenergic receptor antagonists) 15503-22-5 CAPLUS 2-

191156-64-6F
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Bynthetic preparation); THU (Therapeutic usel); BIOL (Biological study); PREP (Preparation) USES (Uses) (preparation of piperazine and piperidine derivs. as alpha la adrenergic receptor antagonists)
191156-64-6 CAPLUS
2-Piperazinecarbonitrile. 1-phenyl-, monohydrochloride (9CI) (CA INDEX NAME)

<12/04/2007>

L9 ANSWER 44 OF 134 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1997:119141 CAPLUS
DOCUMENT NUMBER: 126:131469
TITLE: Preparation of 1- [N- (aralkylaminoalkyl)]aminoisoindole
a as dopamine receptor ligands.
He, Xiao-Shu, Decosta, Brinn, Masley, Jan M. F.
Neurogen Corporation, USA, He, Xiao-Shu; Decosta,
Brian, Masley, Jan M. P.
PCT Int. Appl., 33 pp.
COURKENT TYPE: CODEN: PIXXD2
PARENT INFORMATION: 2
FAMILV ACC. NUM. COUNT: 2
FAMILV ACC. NUM. COUNT: 2
FAMILV ACC. NUM. COUNT: 2

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE

Brich Leese

AU 1997-15820 US 1995-463037 US 1995-463430 US 1995-464336 WO 1996-US8836 WO 1997-US967 19970102 <-A2 19950605
A2 19950605
A 19950710
W 19960604
W 19970102

OTHER SOURCE(S):

MARPAT 126:131469

Title compds. (I; R1, R2, R3, R4, R7, R8, R9 = H, halo, OH, alkyl, alkoxy, X, Y, Z = C, N, R7R8 = atoms to form a (substituted) benzo ring; R6, R10 = H, halo, OH, alkyl, alkoxy, electron pair; R11 = K6, (substituted) Ph; R5 = H, alkyl, O = ((R212); l = 1-4, O1 = (CR2)meNIZCRIRAISCR

<12/04/2007>

. Erich Leese

10/513699

	16,	ы,	,	LV						
JP	11500123			T	19990106	JP	1996-524966		19960212	<
US	5912246			Α	19990615	US	1997-894179		19970814	<
US	6013654			Α	20000111	ŲS	1998-222560		19981230	<
PRIORITY	APPLN.	INFO.	:			US	1995-388682	A2	19950215	
						WO	1996-US1114	W	19960212	
						US	1997-894179	A3	19970814	

OTHER SOURCE(S):

MARPAT 125:275875

The title compds. (I, R1, R2 = H, halogen, alkyl, cycloalkyl, CN, (un)aubstituted CONN2, etc.; R3 = H, halogen, CN, OH, alkyl, CHO, etc.; R4-R7 = H, alkyl, cycloalkyl, cycloalkyl, (un)aubstituted aryl, etc.; R8-R10 = H, halogen, alkyl, cycloalkyl, (un)aubstituted aryl, etc.; R8-R10 = H, halogen, alkyl, cycloalkyl, CN, (un)aubstituted CONN2, cull cull cycloalkyl, CN, (un)aubstituted CONN2, cycloalkyl, CN, (un)aubstituted CONN2, cycloalkyl, CN, (un)aubstituted conn2, cycloalkyl, cycloalkyl, CN, (un)aubstituted conn2, cycloalkyl, c

L9 ANSWER 46 OF 134 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER:
DOCUMENT NUMBER:
135:142292
125:142292
Preparation of benzyloxyhydrazone derivatives as agrochemical fungicides
INVENTOR(8):
Nibnida, Tatsuki, Tajima, Bokichi, Taubata, Kenji
Nibon Nohyaku Co Ltd. Japan
Jpn. Kokai Tokkyo Koho, 56 pp.

10/513699

receptor ligands)
186345-23-3 CAPLUS
1H-Isoindol-3-amine, N-{3-{3-methyl-4-phenyl-1-piperazinyl}propyl}- (9CI)
(CA INDEX NAME)

186345-30-2 CAPLUS
1H-Taoindol-3-amine, N-[3-(3-methyl-4-phenyl-1-piperazinyl)propyl]-,
dihydrobromide (9C1) (CA INDEX NAME)

•2 HBr

L9 ANSHER 45 OF 134 CAPLUS COPYRIGHT 2007 ACS on 8TN
ACCESSION NUMBER: 1996:628531 CAPLUS
DOCUMENT NUMBER: 125:278475
TITLE: Preparation of imidazo[1,2-a]pyridines dopamine
D4-recoptor antagonist cardiovascular and CNS agents
THOPY ANSHORE(S): PATENT INSERT ASSIGNEE(S): POWER CAPTURE AND AGENT ASSIGNEE(S): PATENT INFORMATION: 1

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION;

MO 9625414 A1 19960822 WO 1996-US1114 19960212 .

W: AL, AM, AT, AU, AZ, BB, DG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FT, GB, DE, MY, DIS, JP, KE, KG, KF, KR, KZ, KK, LK, LT, LU, LV, MD, MG, MK, MN, MM, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, ST, SK

RW: KE, LS, MM, SD, SZ, UO, AT, BE, CH, DB, DK, ES, FR, GB, NO, NE, SN, TD

AU 9648595 A 1007 19960212 <--9548595 A 19960904 AU 1996-48595 19960212 805462 AI 19971203 ED 1996-504507 19960212 R: AT, BE, CH, DE, DA, ES, FR, GB, GR, IT, LT, LU, NL, SE, MC, PL 19960212 <--

<12/04/2007>

Erich Leese

10/513699

CODEN: JXXXAP Patent Japanese DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE JP 08127563
PRIORITY APPLN, OTHER SOURCE(S): Α... 19960521 19941029 <--INFO.: 19941029 MARPAT 125:142292

$$CHR^{1}OCR^{2} = NN = CR^{3}R^{4}$$

$$C - COY$$

$$X$$

The title compds, [1, R1, R2 = H, C1-6 (halo)alkyl, R3, R4 = H, cyano, C1-6 (halo)alkyl, C3-6 cycloalkyl, etc., X = CHORS, NORS (wherein R5 = C1-6 alkyl), Y = C1-6 alkoxy, alkylthio, mono- or disubstituted amino, Z = halo, C1-6 (halo)alkyl, m = 0-41, effective agrochem, fungicides at low doses, are prepared Reaction of bromide II with AckNN:C(SWel) in the presence of powdered KOH in DMSO at room temperature gave 42h Mydrazone ound III.

Which showed 95-100t control of barley powdery mildew and Phytophthora infeaths at 200 ppm.

RLL AGR (Agricultural use), BAC (Biological activity or effector, except adverse), BSU (Niological atudy, unclassified), BPN (synthetic preparation), BIOL (Biological atudy), PRPR (Preparation), USES (Usea) (preparation of benzyloxyhydrazone derivs, as agrochem, fungicides) 179935-41 CAPLUS

Benzeneacetic acid, u-(methoxyimino)-2-[[1-[[1-(3-methyl-4-phenyl-1-piperaxinyl)]tehylidenelhydrazono]ethoxy|methyl]-, methyl ester (9CI) (CA INDEX NAME)

<12/04/2007 Erich Leese

L9 ANSMER 47 OF 1)4 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER:
DOCUMENT NUMBER:
115:114630
Certain 4-aminomethyl-2-substituted imidazole derivatives, new classes of dopamine receptor subtype specific ligands
INVENTOR(S):
Thurkauf, Andrew, Horvath, Raymond F.; Yuan, Jun;
PATENT ASSIGNEE(S):
SOURCE:
DOCUMENT TYPE:
PATENT ASPIGNEE (S):
PCT Int. Appl., 94 pp.
CODEN: PIXXD2
PATENT PATENT ASPIGNEE (S):
PATENT ASSIGNEE (S):
PATENT ASSIGNEE (S):
PCT Int. Appl., 94 pp.
CODEN: PIXXD2
PATENT ASPIGNEE (S):
PATE

DOCUMENT TYPE

Patent English

			NO.																
							-									-			
٠	WO	9616	5040			A1		1996	0530		WO 1	995-	U\$15	262		1	9951	122	٠
		W:	AM,	AT,	AU,	BB,	BG.	BR,	BY,	ÇA,	CH,	CN,	CZ,	DE,	DK,	EE,	ES,	FI,	
			GB.	GE.	HU.	IS.	JP.	KE.	KG.	KP,	KR.	KZ.	LK,	LR,	LT.	LU,	LV,	MD,	
			MG.	MN.	MW.	MX.	NO.	NZ.	PL.	PT.	RO,	RU,	SD.	SE,	sq,	SI,	SK,	TJ,	
			TM.	TT															
		RW:	KE.			SD.	SZ.	UG.	AT.	BE.	CH.	DE.	DK.	ES.	FR.	GB,	GR,	IE,	
												ca,							
				SN.															
	US	5681						1997	1028		US 1	995-	4012	01		1	9950	309	<
	US	5633	1956			Α		1997	0527		US 1	995-	4628	3 3		1	9950	605	<
	US	5646	5281			A		1997	0708		US 1	995-	4611	35		1	9950	605	<
	US	5656	5281 5762			A		1997	0812		US 1	995-	4618	58		1	9950	605	<
			2392									995-							
			689					1996	0617		AU 1	996-	4368	9		1	9951	122	<
			9910									995-							
	ZA	9505	911			A		1997	0822		ZA 1	995-	9911			1	9951	122	<
			553									995-							
			AT.																
	ZA	9707	7500			A		1998	0223		ZA 1	997-	7500			1	9951	122	<
	JP	1050	7500 12670			T		1998	0310		JP 1	995-	5170	74		1	9951	122	<
			1950					1999	0830										
	BR	9509	760			A		1998	0630		BR 1	995-	9760			1	9951	122	<
	US	6069	251			Α		2000	0530		US 1	997-	8598	51		1	9970	521	<
			955																
	US	2002	21430	44		A1		2002	1003		US 2	002-	1006	91		2	0020	318	<
	US	679	7824			82		2004	0928										
	n			*****								004				82 1		112	

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Erich Leese

179333-36-9 CAPLUS Piperazine, 1-(4-methoxyphenyl)-2-methyl-4-[(5-methyl-2-phenyl-1H-imidazol-4-yl)methyl]- (9CI) (CA INDEX NAME)

ACCESSION NUMBER DOCUMENT NUMBER: TITLE:

AUTHOR (S) :

ANSWER 48 OF 134 CAPLUS COPYRIGHT 2007 ACS on STN
SSION NUMBER: 1996:158754 CAPLUS
E: 1996:158754 CAPLUS
E: N. (substituted-phenyl)piperazines: antagonists with high binding and functional selectivity for dopamine D4 receptors
D8(S): Beyfield, Izzy, Coldwell, Martyn C., Hadley, Michael S., Healy, Moureen A. M., Johns, Amanda, Nash, David J., Riley, Oraham J.; Scott, Emma E.; Smith, Stephen A.; ct al.
SmithKline Beecham Pharm., Harlow, CM19 SAM, UK
Bloorganic & Medicinal Chemistry Letters (1996)
), 6(11), 1227-1232
CODEN: BMCLES, ISSN: 0960-894X
EISHER: Elsevier

CORPORATE SOURCE:

PUBLISHER: DOCUMENT TYPE: LANGUAGE: GI

A series of N-(substituted-phenyl)piperazine derivs, was prepared as selective antagonists of the dopamine D4 receptor. Many analogs possessed a binding selectivity of over 100 fold for D4 over D2 receptors. In functional studies in the microphysiometer, compound I showed a selectivity over dopamine D2 receptors of greater than 1000 fold. 17925s-152
RL: BAC (Biological activity or effector, except adverse), BSU (Biological study, unclassified); PRP (Properties); TRU (Therapeutic use), BIOL (Biological study); USES (Uses) (preparation of N-(substituted-phenyl)piperazines as D4 receptor antagonists in relation to schizophrenia)

Erich Leese

A2 19941123 A2 19950309 A2 19901228 A2 19931108 A2 19940927 A1 19950605 W 19951122 A1 19970521 US 1995-401201 US 1990-635256 US 1990-635256 US 1993-81317 US 1994-313435 US 1995-462833 WO 1995-US15262 US 1997-859861 UB 2000-497988 A1 20000204

OTHER SOURCE(S): MARPAT 125:114630

Disclosed are compds. (1), wherein R1 represents optionally substituted ary), heterosryl, arylalkyl, or cycloalkyl groups, X, Z, and Y are optionally substituted nitrogen or carbon atoms; R3 and R4 are organic or inorg. Substituents which may together form ring structures; in is zero, one or two; and R5 and R6 are organic or inorg. substituents, and the pharmaceutically acceptable addition salts thereof, which compds, are highly selective partial agonists or antagonists at brain dopamine receptor subtypes or prodrugs thereof and are useful in the diagnosis and treatment of affective disorders such as Schizophrenia and depression as well as certain movement disorders such as Parkinsoniam. Specifically, 2-phenyl-4(5)-[14-[2-pyrimidinyl)piperasin-1-yl]methyl]midazole dihydrochloride was prepared and was shown to bind to the dopamine D4 receptor site (K1 = 103), 8200, 2.7 for D2, D3. D4 binding sites, reap.). 179313-05-2P 179333-05-3P 17933-05-3P 179333-05-3P 179333-05-

179333-06-3 CAPLUS
Piperarine, 2-methyl-1-(4-methylphenyl)-4-((2-phenyl-1N-imidazol-4yl)methyll- (9C1) (CA INDEX NAME)

<12/04/2007>

10/513699

179258-15-2 CAPLUS
Propanamide, N-(4-(4-(4-chlorophenyl)-3-methyl-1-piperazinyl}butyl]-2,2-dimethyl- [9CI) (CA INDEX NAME)

LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

OTHER SOURCE(S):

A1 A1 CZ. DE. PATENT NO. 19960125 19960201 DE 4425660
WO 9602532
M: AU, CA, CN,
RM: AT, BE, CH,
AU 9530763
ZA 9506012
PRIORITY APPLN. INFO.:

CASREACT 124:261076; MARPAT 124:261076

Title compds. [I/ A = H. Me, Rl = (substituted) Ph. naphthyl. pyridyl, pyrimidinyl, pyrazinyl, 3.4-methylenedioxyphenyll, were prepared Thus. 7-fluoro-1.4-dihydro-4-oxo-1-[4-(H-1.2,4-triazol-1-yheethyl)phenyll-3-quinolinecarboxylic acid hydrochloride [preparation via 1-(4-aminobensyl)-1H-1,2.4-criazole given) was stirred with 1-(0-fluorophenyl)piperazine and diisopropylamine in DMF at 120° to give 95.4% I (A = H. Rl = 0-fluorophenyl). I inhibited HIV in human lymphocytes with IC50 = 0.08-0.7 µM. 2946-76-1
RL: RCT (Reactant); RACT (Reactant or reagent) (preparation of 7-piperazinyl-1,4-dihydro-4-oxo-1-[4-(H-1,2,4-triazol-1-yl-methyl)phenyl]quinoline-3-carboxylic acids as virucides) 2946-76-1 CAPLUS

2946-76-1 CAPLUS
Piperazine, 2-methyl-1-phenyl- (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME)

ANSWER 50 OF 134 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: DOCUMENT NUMBER: TITLE:

APLUS COPYRIOHT 2007 ACS on STN
1995;9585;5 CAPLUS
124:146212
8-Chloro-10.11-dihydro-10-(1piperazinylcarbonyl)dibenz(b,f]i1.4]oxazepine
derivatives and analogs as analgesics and
prostaglandin-E2 antagonists
Hansen, Donald W., Jr.; Peterson, Karen B.
G. D. Seatle and Co., USA
U.S., 38 pp. Cont.-in-part of U.S. 5,354,747.
CODEN, USAXAM INVENTOR (S) : PATENT ASSIGNEE (S) : SOURCE:

Patent English DOCUMENT TYPE: LANGUAGE:

COUNT:

PAMILY ACC. NUM. CC PATENT INFORMATION:

P/	ATE	1743	NO.			KIN	DATE		A	PPL	CAT	ON I	NO.		D.	ATE		
									-						-			
US	5 5	46	047			A	1995	1024	U	S 19	94-2	4534	9		1	99405	18	<
US	9 5	5354	747			Α	1994	1011	U	S 19	993-1	9021	1		11	99306	16	<
C	A 2	169	159			A1	1994	1222	C.	A 19	94-2	165	159		1:	99406	02	٠
WC	9	425	286			A1	1994	1222	W	0 19	994-1	JS60:	29		1:	99406	502	<
		W:	AT	, AU,	BB,	BG,	BR, BY,	CA.	CH,	CN,	CZ.	DE,	DK,	ES,	FI,	GB,	HU,	
			JP	, KP,	KR,	KZ,	LK, LU,	LV.	MG,	MN,	MW,	NL,	NO,	NZ,	PL,	PT,	RO,	
			RU	, SD.	SE,	SI,	SK, TT,	UA,	US,	UZ,	VN							
		RW:	AT	BE.	CH.	DE.	DK, ES,	FR,	GB,	GR,	IE,	IT,	LU,	MC,	NL,	PT,	SE,	
			BF	BJ,	CF,	CG.	CI, CM,	GA.	GN,	ML,	MR,	NE,	SN,	TD,	TG			
AL	, ,	471	387			A	1995	0103	A	U 19	994-1	71381	7		1:	99406	02	<
E	P 7	7039	800			A1	1996	0403	В	P 19	94-9	2068	97		1 1	99406	02	<
		R:	AT	, BE,	CH,	DE.	DK, ES,	FR,	GB,	GR,	IE,	IT,	LI,	LU,	NL,	PT,	SE	
J	Р (950	010	7		T	1997	0107	J	P 19	994-5	018	74		1:	99406	02	٠٠٠
ORIT	ΓY	API	PLN,	INFO	. :				U	S 19	993-1	902	1		A2 1	99306	16	
									U	S 19	994-2	24534	19		A 1	99405	18	
									W	0 - 1 9	994 - t	JS602	29		W 1	99406	502	

<12/04/2007>

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Erich Leese

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162082-37-3P, Ethyl 1-phenyl-4-(phenylmethyl)-2piperazinecarboxylate 162082-38-4P, Ethyl 1-phenyl-2piperazinecarboxylate 162082-38-4P, Ethyl 1-phenyl-2piperazinecarboxylate 162082-38-4P, Ethyl 1-phenyl-2piperazinecarboxylate 162082-38-4P, Ethyl 1-phenyl-2[Reactant or resgent] 19-phenyl-2-p

162082-39-4 CAPLUS
2-Piperazinecarboxylic acid, 1-phenyl-, ethyl ester (9CI) (CA INDEX NAME)

L9 ANSWER 51 OF 134 CAPLUS COPYRIGHT 2007 ACS ON STN ACCESSION NUMBER: 1995;954796 CAPLUS

10/513699

CASREACT 124:146212; MARPAT 124:146212 OTHER SOURCE(S):

$$\begin{array}{c|c} x & z \\ & & \\ &$$

The present invention provides substituted dibenzoxazepine and dibenzothiazepine compds. I or a pharmaceutically-acceptable sait thereof, wherein: W = (H):r, 0 = (Cn(R)q(d)t, X is oxygen, sulfur, 80, or 503, Y is hydrogen, halogen or hydroxy, Z is hydrogen or halogen, A is alkyleme or carbonyl. B is CH or nitrogen, D is carbon or nitrogen, B is alkyleme or carbonyl, alkyleneamino or alkylenecarbonyl, G is hydrogen, alkyl, cycloalkyl, alkoxy, aminoalkyl, aminocycloalkyl, aryl, alkyleneemyl or aryl-aubstituted aryl, R is hydrogen or CO2M1, R1 is hydrogen or stkyl, m is an integer of from 0 to 4, n is an integer of from 0 to 4, n is an integer of from 0 to 1, vit is not 1, q is an integer of from 0 to 1, vit hydroylene which are useful as analgesic agents for the treatment of pain, and for prostaglandin-22 mediated diseases. Thus, e.g., 10,11-dihydro-10-[14-(2-phenylathyl)-1. piperazinyllcarbonylldibenz[b,f][1,4]oxazepine, monohydrochloride [II.RC] was synthesized by reductive alkylation of 8-chloro-10,11-dihydro-10-(1-piperazinylcarbonyl)dibenz[b,f][1,4]oxazepine, monohydrochloride (preparation given) with phenylacetaldehyde, and exhibited analgesic activity of 10/10 in the writning assay and prostaglandin-22 antagonism with dose ratio of EC50 doses = 2.6
16339-09-6P
RL: BAC (Biological activity or effector, except adverse), BSU (Biological study), PREP (Preparation), USES (Uses)
(8-chloro-10,11-dihydro-10-(1-piperazinylcarbonyl)dibenz[b,f][1,4]oxazep pine derive, and analogs as analgesics and prostaglandin-22 antagonists)
16393-09-6 CAPLUS
2-piperazinecarboxylic acid, 4-[(8-chlorodibenz[b,f][1,4]oxazepin-10(11H)-yl)carbonyl]-1-phenyl-, ethyl ester (9CI) (CA INDEX NAME)

<12/04/2007>

Erich Leese

10/513699

DOCUMENT NUMBER; TITLE: INVENTOR(S):

123:330860
Tocolytic oxytocin receptor antagonists
Bock, Mark G., Evans, Ben E., Culberson, J.
Christopher, Gilbert, Kevin F., Rittle, Kenneth B.,
Williams, Peter D.
Merck and Co., Inc., USA
PCT Int. Appl., 114 pp.
CODEN: PIXKD2

PATENT ASSIGNEE(S); SOURCE;

DOCUMENT TYPE:

Patent English

	PAT	LEML	NO.			KIN	D	DATE			APPL	ICAT.	ION	NO.		D.	ATE		
							-							- -					
	WO	9525	443			A1		1995	0928		WO 1	995-1	U837	38		1	9950	323	٠
		₩:	AM,	AU,	BB,	BG,	BR,	BY,	CA,	CN,	cz,	EE,	FI,	GE,	HU,	IB,	JP,	KO,	
			KR,	KZ,	LK,	LR,	LT.	LV.	MD,	MG,	MN,	MX.	NO.	NZ,	PL,	RO,	RU,	BG.	
			81,	sĸ,	TJ,	TT,	UA,	US,	UZ										
		RW:	KE,	MW,	SD,	SZ,	UG,	AT,	BE,	CH,	DE,	DK,	ES.	PR,	GB,	OR,	IE,	IT.	
			LU,	MC,	NL,	PT,	SE,	BF,	BJ,	CF,	CQ,	CI,	CM,	GA,	GN,	ML,	MR,	NE,	
			SN,	TD,	TG														
	US	5464	788			Α		1995	1107		US 1	994-	2172	70		1	9940	324	
	CA	2186	129			A1		1995	0928		CA 1	995-	2186	129		1	9950	323	٠
	ΑU	9521	952			A		1995	1009		AU 1	995-	2195	2		1	9950	323	<
	AU	6867	92			B2		1998	0212										
	EP	7517	73			A1		1997	0108		EP 1	995-	9148	75		1	9950	323	<
		R:	AT,	BE,	CH,	DE,	DK,	ES,	PR,	GB,	GR,	IE,	IT.	LI,	LU,	ŇL,	PT,	SE	
	JP	0951	2521			T		1997	1216		JP 1	995-	5248	3 8		1	9950	323	
	US	5756	504			A		1998	0526		US 1	996-	7184	15.		1	9960	923	٠
PRIC	RITY	APP	LN.	INPO	. :						US 1	994-	2172	70		A2 1	9940	324	
											WO 1	995~	U937	3 8		W 1	9950	323	
OTHE	ER SC	URCE	(S):			MAR.	PAT	123:	3308	60									

Spiroindenepiperidine derivs. I [R1 = H, C1-5 alkyl, CN, C02H, Ph, etc., R2 = H. PhCH2. C3-8 cycloalkyl, C1-5 alkyl, Y = C02, C(O)NR2, C(18R2), S02, C(O) (CH2)n, (CH2)p, (CH2)p(C0), R = (terrahydro)naphthyl, (substituted) cyclohexyl, (substituted) Ph, heterocyclyl, bond in cyclopentae ring is single or double, n = 0-2, p = 1-3] and phenylpiperarine derivs. II (Y, R, R1 as above; R14, R15 = H, C1-5 alkyl, C1-5 alkox, halo, NO2, CN, R16 = H, C1) and their pharmaceutically acceptable salts and esters are useful as oxytocin and vasopressin receptor antagonists for treatment of preterm labor and dysmenorrhea and for stopping labor prior to cessrean delivery. Thus, 1-[2-methoxy-4-[1-[2-

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(N-cyclopropylamino)ethylsulfonyl]-4-piperidyloxy]phenylacetyll-4-(2-methylphenyl)piperazine-2-carboxamide (III) was prepared in 11 steps from 4-hydroxyplperidine. Me 2,4-dihydroxyplenzoate, 2-benzylaminethanol, o-toluidine, 2,3-dibromopropionamide, and cyclopropylamine. III competed with 1 nM oxytocin-3H for binding to rat uterine tissue with an 1650 of 20

170929-79-0P 170929-79-0P
RL: BAC (Biological activity or effector, except adverse), BSU (Biological study, unclassified), SPN (Synthetic preparation), THU (Therapeutic use), BIOL (Biological study), PREP (Preparation), USES (Usea) (tocolytic oxytocin receptor antagonists) 170929-79-0 CAPLUS Carbamic acid, [4-[2-[3-(2-hydroxyethyl)-4-(2-methylphenyl)-1-piperazinyl]-2-oxoethyl]phenyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

170930-08-2P 170930-09-3P
RL: RCT (Reactant), SPN (Synthetic preparation), PREP (Preparation), RACT
(Reactant Or reagent)
(tocolytic oxytocin receptor antagonists)
170930-08-2 CAPLUS
2-Piperazineethanol, 1-(2-methylphenyl)-4-(phenylmethyl)- (9CI) (CA INDEX NAME)

170930-09-3 CAPLUS
2-Piperazineethanol, 1-(2-methylphenyl)- (9CI) (CA INDEX NAME)

<12/04/2007>

Erich Leese

10/513699

162082-38-4 CAPLUS 2-Piperazinecarboxylic acid, 1-phenyl-, ethyl ester (9CI) (CA INDEX NAME)

163839-09-6P
RL: SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological Study); PREP (Preparation); USES (Uses) (preparation of diberz[b,f][1.4]oxazepines analgesics)
163839-09-6 CAPUS
2-Pjeprazionecarboxylic acid, 4-[(8-chlorodibenz[b,f][1,4]oxazepin-10(11H)-yl)carbonyl]-1-phenyl-, ethyl ester (9CI) (CA INDEX NAME) 163839-09-6P

L9 ANSWER 53 OF 134 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1995:274966 CAPLUS
DOCUMENT NUMBER: 122:81403
TITLE: Preparation of J-{piperazinomethyl}indazoles as dopaminergic antagonists
INVENTOR(S): Baker, Raymond, Kulagowski, Janusz Jozef; Leeson, Paul David, Smith, Adrian Leonard

Brich Leese

10/513699

L9 ANSWER 52 OF 134 CAPLUS COPYRIGHT 2007 ACS ON STN ACCESSION NUMBER: 1995:682580 CAPLUS DOCUMENT NUMBER: 123:83397

123:83397

Analgesic dibenzoxazepines and dibenzothiazepines
Hansen, Donald Willis, Jr., Peterson, Karen Berenice
G.D. Searle and Co., USA
PCT Int. Appl., 189 pp.
CODEN: PIXXD2
Patent
English
J TITLE: INVENTOR(S):

DOCUMENT TYPE; LANGUAGE: FAMILY ACC, NUM, COUNT: PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE

OTHER SOURCE(S): MARPAT 123:83397

Dibenz[b,f][1,4]oxazepines and dibenz[b,f][1,4]thizepines were disclosed for the treatment of progragiandin-E2 mediated diseases. A claimed example compound is 8-chloro-10,11-dihydro-10-[[1-(phenylmethyl)-1-piperazinyl]carbonyl]dibenz[b,f][1,4]oxazepine hydrochloride [1]. 162082-37-3P 162082-38-4P RL: RCT (Reactant) SPN (Synthetic preparation), PREP (Preparation), RACT (Reactant or reagent) (preparation of dibenz[b,f][1,4]oxazepines analgesics) 162082-37-3 CAPLUS / 2-Piperazinearboxylic acid, 1-phenyl-4-(phenylmethyl)-, ethyl ester (9CI) (CA INDEX NAME)

<12/04/2007>

Brich Leese

Merck Sharp and Dohme Ltd., UK PCT Int. Appl., 60 pp. CODEN: PIXXD2 Patent English PATENT ASSIGNEE (S) : SOURCE:

DOCUMENT TYPE: LANGUAGE:

FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

	PAT	LENT	NO.			KIN	,	DATE			APPL	ICAT	ION	NO.		D	ATE		
																-			
	WO	9421	630			A1		1994	0929		WO 1	994-	GB50-	4		1	9940	314	<
		₩:	AT.	AU.	BB,	BG,	BR.	BY,	CA.	CH,	CN.	CZ,	DE,	DK,	ES,	FI,	GB,	HU.	
			JP.	KP.	KR.	KZ.	LK.	LU.	LV.	MG.	MN.	MW.	NL.	NO.	NZ.	PL.	PT.	RO	
								UA.											
		RW:						RS,				IE.	IT.	LU.	MC.	NL.	PT.	SE.	
								CM.											
	CA	2156															9940	314	
		9462																	
												,,,,				•	,,,,	3.44	
		6850																	
,		6895									EP 1	994-	9092	10		1	9940	314	<
	EP	6895	39			B1		1997	1203										
								E8,											
	JP	0851	2284			T		1996	1224		JP 1	994 -	5207	66		1	9940	314	< • •
	ΑT	1607	79			Ť		1997	1215		AT 1	994 -	9092	10		1	9940	314	<
	ES	1607 2110	225			Т3		1998	0201		ES 1	994-	9092	10		1	9940	314	<
		5780																	
PRIO		APP										993-							
												994-							
OTUE		OURCE				MADE		122.						-		•		~ • •	
OINE		JURCE	(0):			PINK	~.	:	0140.	,									

Title compds. [1, R = H, alkyl, R1 = H, (cyclolalkyl, alkoxy, (heterolaryl, etc., R3 = (cyclo)alkyl, alkoxy, (heterolaryl, etc., R3 = R5 = H, halo, cyano, hydrocarbyl, etc.] were prepared Thun, lH-indazole-3-carboxylic acid was amidated by 1-(4-chlorophenyllopicrasine and the product reduced to give I (R = R1 = R3 = R5 = H, R2 = 4-CLCSH4). I had Ki of 1.5;uM for displacement of spiperone from cloned human dopamine D4 receptors in vitro. 160008=87-7P
RL: BAC (Biological activity or effector, except adverse), BBU (Biological study, unclassified), SPN (Synthetic preparation), THU (Therapoutic use), BIOL (Biological study), PREP (Preparation), USER (Uses)
(preparation of 3-(piperasinomethyl)indazoles as dopaminergic antagonists) 160008-97-7 CAPLUS
HH-indazole, 3-[(3-methyl-4-phenyl-1-piperazinyl)methyl]- (9CI) (CA INDEX NAME)

L9 ANSMER 54 OF 134 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1995;205963 CAPLUS
DOCUMENT NUMBER: 123:9468
2-, 3-, 4-, 5-, 6-, 7-, 8-, 9- and/or 10-substituted dibenzoxazepine and dibenzothiazepine compounds as analyseics and prostaglandin E2 antagonists, pharmaceutical compositions and methods of use Hansen, Donald M., Jr., Peterson, Karen B. C.D. Scarle and Co., USA
SURCE: 0.D. Scarle and Co., USA
U.S., 19 pp.
CODEN: USXXAM
Patent

DOCUMENT TYPE: LANGUAGE; FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO.	KIND DATE	APPLICATION NO.	
US 5354747	A 19941011	US 1993-79021	19930616 <
US 5461047	A 19951024	US 1994-245349	19940518 <
CA 2165159	A1 19941222	CA 1994-2165159	19940602 <
WD 9429286	A1 19941222	WO 1994-US6029	19940602 <
		CN, CZ, DE, DK, ES,	
		MN, MW, NL, NO, NZ,	
	SI, SK, TT, UA, US,		
		GR. IE. IT. LU. MC.	NI. PT. SE.
		ML, MR, NE, SN, TD,	
		AU 1994-71387	
		EP 1994-920687	
		GR, IE, IT, LI, LU,	
		JP 1994-501874	
PRIORITY APPLN, INFO,:		US 1993-79021	
		US 1994-245349	
		WO 1994-US6029	W 19940602
OTHER SOURCE(S):			
gi			
9.1			

<12/04/2007>

Erich Leese

10/513699

162082-38-4 CAPLUS 2-Piperazinecarboxylic acid, 1-phenyl-, ethyl ester (9CI) (CA INDEX NAME)

L9 ANSWER 55 OF 134 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1995:205562 CAPLUS
DOCUMENT NUMBER: 122:239729
Squaric acid derivatives of substituted dibenzoxazepine compounds as analgesics and prostaglandin E2 antagonists, pharmaceutical compositions and methods of use Chandrakumar, Nizal S.; Pitzele, Barnett S. OLD. Searle and Co., USA U.S., 18 pp.
COOMENT TYPE: PARENT FASTOREE (8): Parent Sagnage Coopen Sagnage

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE

US 3)54746 A 19941011 US 1993-69503 19930601 × MO 9427981 AI 19941208 MO 1994-998973 19940511 × M: AT. AU, BB, BB, BY, CA, CH, CN, CZ, DR, DK, ES, FI, GB, HU, JP, FP, KR, KZ, LK, LU, LV, MG, MN, MH, NL, NO, NZ, PL, FT, RO, RU, SD, SS, SI, SK, TT, UA, US, UZ, VN

RW: AT, IEE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, FT, SE, BP, EJ, CF, CG, CI, CM, GA, GN, ML, MR, NR, NR, NR, TD, TG

AU 9467831 A 19941200 AU 1994-4084973 N 19940511 × R SOURCE(S): MARPAT 122:239729 19930601 <--19940511 <--, TG 19940511 <--A 19930601 W 19940511 AU 9467831 PRIORITY APPLN, INPO,:

Brich Leese

MARPAT 122:239729

The present invention provides substituted dibentoxasepine and dibentthiaxepine compde. I which are useful as analyssic syents for the treatment of pain, and for prostoglandin-R2 mediated diseases, pharmaceutical compans, comprising a therapeutically-fetective amount of I in combination with a pharmaceutically-acceptable carrier, a method for climinating or ameliorating pain in an animal comprising administering a therapeutically-effective amount of I to the animal, and a method for treating prostaglandin-R2 mediated diseases in an animal comprising administering a therapeutically-effective amount of I to the animal analyse cativity was measured using the writhing assay as standard dose of 10 mpk/g body weight; I produced analyseis in from 2/10 to 10/10 of the mice. Prostaglandin E2 antagonism assay (inhibition of contraction of guinea pig ileum); dose ratio of EC50 doses of from 0.8 to 32. Pharmaceutical compans, were given.

163839-09-6P

163839-09-6P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PRSP (Preparation)
(substituted dibenzoxarepine and dibenzthiarepine compds, as analgesics and prostaglandin EZ antagonists)
163839-09-6 CAPLUS
2-Piperaxinecarboxylic acid, 4-((8-chlorodibenz[b,f][1,4)oxarepin-10(11H)-yl)carbonyl]-1-phenyl-, ethyl ester (9CI) (CA INDEX NAME)

162082-37-3P, Ethyl 1-Phenyl-4-(phenylmethyl)-2piperazinecarboxylate 162082-38-4P, Ethyl 1-phenyl-2piperazinecarboxylate
RL: RCT (Reactant): SPN (Synthetic preparation): PREP (Preparation): RACT
(Reaccant or reagent)
(substituted dibenzoxazepine and dibenzthiazepine compds. as analgesics
and prostaglandin E2 antagonists)
162082-37-3 CAPUS
2-Piperazinecarboxylic acid, 1-phenyl-4-(phenylmethyl)-, ethyl ester (9CI)
(CA INDEX NAME)

<12/04/2007>

Erich Leese

10/513699

The present invention provides substituted dibensoxatepine compds. of formula I (X = 0, 8, 80, 802) Rt. RZ = N, halogen; R1 = NRARS, alkoy, II, III, R4 = N, alkyl, R5 = alkyl, alkylene:NRAR4, alkylaryl; R6 = Nen aryl; R7 = N, CO2R4, m = 0.5) which are useful sa analgesic agents for the treatment of pain, and as prostaglandin-E2 antagonists for the treatment of pain, and as prostaglandin-E2 antagonists for the treatment of prostaglandin-E2 mediated diseases, pharmacoutical compns. comprising a therapeutically-effective amount of a compound I in combination with a pharmaceutically-acceptable carrier, a method for eliminating or ameliorating pain in an animal, comprising administering a therapeutically-effective amount of a compound I Formula I to the animal. Analgesic activity assessed by writhing assay at 30 mg/kg dose; in from 4/10 to 6/10 of mice, the number of writhes elicited by PDO was equal to, or less than, one-half the median number of writhes recorded for the saline-treated control group. POE2 antagonism assay: EC50 dose ratios of 1,9 2.0 to 153; 74 for inhibition of contraction of guinea pig ileum. Pharmaceutical formulations were given. 152082-37-3P. Ethyl 1-phenyl-4-(phenylmethyl)-2-piperazinecarboxylate 162082-38-4P, Ethyl 1-phenyl-2-piperazinecarboxylate (synthetic preparation); PREP (Preparation), RACT (Reactann); RCC (Rea

<12/04/2007>

162082-18-4 CAPLUS
2-Piperazinecarboxylic acid, 1-phenyl-, ethyl ester (9C1) (CA'INDEX NAME)

L9 ANSMER 56 OF 134 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1994:457460 CAPLUS
DITLE: 2-Amino-2-oxazolines. VII. Influence of structural perameters on the antidepressant activity of S:(1-art)-4-piperarino)methyl-2-amino-2-oxazolines
AUTHOR(S): Bosc. Jean Jacques; Forfar, Isabelle, Jarry, Christian, Leguerre, Michel; Carpy, Alain
CORPORATE SOURCE: Lab. Chim. Phys., Univ. Bordeaux II, Bordeaux, 33076, FI.

Archiv der Pharmazie (Weinheim, Germany) (1994), 327(3), 187-92 SOURCE !

CODEN: ARPMAS; ISSN: 0365-6233

DOCUMENT TYPE:

LANGUAGE: OTHER SOURCE(S): GI English CASREACT 121:57460

[(Arylpiperazino)methyl]aminooxazolines I (R = substituted Ph, Ri = H, Me) were prepared and screened for antidepressant activity. Their lipophilic behavior is discussed in relation to the nature and the position of substituents on the aromatic ring. The influence of servic effects on the pharmacol. activity has been investigated using exptl. methods (x-ray diffraction, NMR) and theor. calcus. (semi-empirical quantum mechanics). Ortho-substitution on the Ph ring or C(wi)-substitution on the piperazine ring by a Me group results in the same effects, i.e., an increase of the angle between the two rings up to 64* (x-ray and calcul, and a loss of antidepressant activity. 35947-11-6
REL RCT (Reactant); RACT (Reactant or reagent) [alkylation by, of epichlorohydrin) 35947-16 CAPLUS
Piperazine, 2-methyl-1-(4-methylphenyl)- (CA INDEX NAME)

<12/04/2007>

Erich Leese

10/513699

L9 ANSMER 57 OF 134
ACCESSION RUMBER:
DOCUMENT NUMBER:
1994.9618 CAPLUS
DOCUMENT NUMBER:
120.6818
Alvyl derivatives of trazodone with CNS activity and reduced side effects
FATENT ASSIGNRE(S):
BAIOCKI, Leandro
PATENT ASSIGNRE(S):
DOCUMENT TYPE:
DOCUMENT TYPE:
PATENT INFORMATION:
FAMILY ACC. NUM. COUNT:
1
CAPLUS COPPRISED

CAPLUS COPPRISED

CAPLUS COPPRISED

LOGICAL PROPRISED

COPPRISED

English
FAMILY ACC. NUM. COUNT:
1

Erich Leese

PAMILY ACC. NUM. COUNT: PATENT INFORMATION:

		APPLICATION NO.	
		WO 1993-EP80	
RW: AT, BE, CH,	DE, DK, ES, FR,	GB, GR, IE, IT, LU, MC,	NL, PT, SE,
		GN, ML, MR, SN, TD, TG	
AU 9333504	A 19930803	AU 1993-33504	19930114 <
AU 671973	B2 19960919	AU 1993-33504	
EP 623131	A1 19941109	EP 1993-902204	19930114 <
EP 623131	B1 19960403		
R: AT, BE, CH,	DE, DK, ES, FR,	GB, GR, IE, IT, LI, LU,	MC, NL, PT, SE
JP 07503000	T 19950330	JP 1993-512150	19930114 <
JP 2856912	B2 19990210		
HU 70761	A2 19951030	HU 1994-2119	19930114 <
HU 218678	B 20001028		
AT 136307	T 19960415	AT 1993-902204	19930114 <
HU 72591	A2 19960528	JP 1993-512150 HU 1994-2119 AT 1993-902204 HU 1995-2179	19930114 <
HU 217968 ES 2088270 BR 9305752	B · 20000528		
ES 2088270	T3 19960801	ES 1993-902204	19930114 <
BR 9305752	A 19970128	BR 1993-5752	
PL 170913	B1 19970228	PL 1993-304665	19930114 <
CZ 282910			19930114 <
RO 113465		RO 1994-1203	
RU 2126801		RU 1994-36769	19930114 <
SK 280561	B6 20000313	SK 1994-846 CA 1993-2128202 ZA 1993-292	19930114 <
CA 2128202	C 20010123	CA 1993-2128202	19930114 <
ZA 9300292	A 19930819	W 1333-535	13330112 <
PI 9403386	A 19940715	PI 1994-3386	19940715 <
FI 110186	B1 20021213		
NO 9402668			19940715 <
NO 302365	B1 19980223		
US 5543563 US 5739334 HU 71511	A 19960806	US 1995-457490	
US 5739334	A 19980414	US 1995-457114	19950601 <
HU 71511	A2 19951228	HU 1995-2177	19950719 <
HU 219493	8 20010428		

155850-87-6P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation and cleavage of, with monosodium cyanamide)
155850-87-6 CAPLUS
Piperarine, 2-methyl-1-(4-methylphenyl)-4-(oxiranylmethyl)- (9CI) (CA
RUDEX NAME)

155850-82-1P 155850-86-5P
RL: SPN (Synthetic preparation), PREP (Preparation)
(preparation, antidepressant activity, and NMR of)
155850-82-1 CAPLUS
2-0xazolamine, 4,5-dihydro-5-[13-methyl-4-(4-methylphenyl)-1piperazinyllmethyl]-, (R*,R*)- (9CI) (CA INDEX NAME)

Relative stereochemistry.

iSSBSO-86-5 CAPLUS 2-Oxazolamine, 4.5-dihydro-5-[[3-methyl-4-(4-methylphenyl)-1-piperazinylimethyll-, (R*,8*)- (9CI) (CA INDEX NAME)

Relative stereochemistry.

<12/04/2007>

Erich Leese

10/513699

HU	71512	A2	19951228	HU	1995-2178		19950719	٠
HU	217981	В	20000528					
HU	71513	A2	19951228	HU	1995-2180		19950719	<
HU	217982	В	20000528					
ບຣ	5726178	A	19980310	υs	1996-758556		19961129	<
NO	9704462	A	19940916	NO	1997-4462		19970926	<
PI	2002001652	A	20020916	FI	2002-1652		20020916	<
PI	113266	Bı	20040331					
PRIORITY	APPLN. INFO.;			IT	1992-MI84	A	19920117	
				Hυ	1994-2119	A	19930114	
				MO	1993-EP80	A	19930114	
				US	1994-256352	A3	19940718	

OTHER SOURCE(S): MARPAT 120:8618

The title compds. I (only one of R, R1-R3 is C1-3 alkyl and the others are H), useful in the treatment of depression, and which have reduced affinity for adrenergic receptors thus not producing the side effects of trazodone (e.g., hypotension and priaglasm), are prepared by reacting 1,2.4-triazolo((.3-a)pyridon-3-(2H)-one or its salts with alkali metal and with pipersaine derivative II (R - leaving group). Thus, the Na salt of 1,2.4-triazolo((.3-a)pyridon-3-(2H)-one was condensed with 1,2.4-triazolo((.3-a)pyridon-3-(2H)-one was condensed with 1-(3-chloro-14)-dehoro-2-methylpropyl)pipersine, producing I (R - Me, R1-R3 - H) hydrochloride salt, m.p. 196-198*, which demonstrated 27% inhibition of adrenergic G1-receptors at 10-7 M and 88% inhibition at 10-3 M, vs. 49% and 98%, rapp., for trazodone.

153-48-01-09 128-48-03-19 154-03-10 (.as antidepressant with reduced adrenergic receptor affinity (preparation) (.as antidepressant with reduced adrenergic receptor affinity 1934-48-01 CAPULDS 1934-3-10 CAPULDS 1,2.4-Triazolo(4,3-a)pyridin-3(2H)-one. 2-(3-(4-(3-chlorophenyl)-3-methyl-1-piperazinyl)propyl)- (9CI) (CA INDEX NAME)

<12/04/2007>

151448-02-1 CAPLU8 1,2,4-Triazolo(4,3-a)pyridin-3(2H)-one, 2-[3-[4-(3-chloropheny1)-3-methyl-r-piperazinyl]propyll-, monohydrochloride (9CI) (CA INDEX NAME)

● HC1

L9 ANSWER 58 OF 134 CAPLUS COPYRIGHT 2007 ACS ON STN
ACCESSION NUMBER: 1993:517276 CAPLUS
DOCUMENT NUMBER: 119:117276
ITITLE: Novel 4-arylpiperazines and 4-arylpiperidines
INVENTOR(S): Reitz, Allen B.
PATENT ASSIONEE(S): MCKNElab, Inc., USA
SOURCE: PCT Int. Appl., 64 pp.
CODEN: PIXXD2
DOCUMENT TYPE: PLENT

Patent English 2

LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

									APPLICATION NO.										
WO	WO 9304682				A1 19			9930318 %			O 1992-US7754					19920911 <			
	₩:	AU,	BB,	BG,	BR,	CA,	FI,	HU,	JP,	ΚP	٠,	KR.	LK,	MG,	MW,	NO,	RO,	RU,	, SD
	RW;	AT.	BE.	CH,	DE.	DK,	ES,	FR,	GB,	GR	t.	IE.	IT,	LU,	MC,	NL,	SE,	BF.	
		RJ,	CF,	CG,	C1,	CM,	GA,	GN,	ML,	MR	i,	SN.	TD,	TG					
ZA	9109	629			A		1993	1206		ZA	19	91-9	629			1	911	205	<
	6896						1995			HU	19	93-	1362			1	911	220	<
нυ	2170	6 B			В		1999	1129											
UA	9226	599			Α		1993	0405		ΑU	19	92 - :	26599	•		1	920	911	<
ΑU	6577	99			B2		1995	0323											
EP	5633	45			Al		1993	1006		EР	19	92-5	203	13		1	920	911	<
EP	5633	45			B1		2002	0703											
	R:	AT.	BE.	CH.	DE.	DK.	ES.	FR.	GB.	CR	١.	IE.	IT.	LI.	LU.	MC.	NL.	SE	
HU	6453	5			A2		1994	0128	- 1	ΗV	19	93-:	1361			1	920	911	<
JP	0650	2870			т		1994	0331		JΡ	19	93 - !	50552	25		1	9920	911	<
JP	2941	945			B2	•	1999	0830											
RU	2139						1999	1020	٠,	RU	19	93-4	105	5		1	920	911	<
SG	7098	0					2000										9920	911	<
ΔТ	2199	3.8			т		2002	0715		ΔT	19	95.6	2003	13		1.	920	911	

<12/04/2007>

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● HC1

2946-76-1 148888-23-7
RL: RCT (Reactant), RACT (Reactant or reagent)
(preparation from; of antipsychotic arylpiperidines and arylpiperazines)
2946-76-1 CAPLUS
Piperazine, 2-methyl-1-phenyl- (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME)

148888-23-7 CAPLUS Piperazine, 1-(2-fluorophenyl)-2-methyl- (9CI) (CA INDEX NAME)

L9 ANSMER 59 OF 134 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1993;182780 CAPLUS
DOCUMENT NUMBER: 118:182780
ITITLE: RP-MPLC of new antidepressant 2-amino-2-oxazolines: a comparative study of their lipophilicity
Desmotes-Mainard, F.; Thomas, J.; Bosc, J. J.; Devaux, G.; Jarry, C.
CORPORATE SOURCE: Dep. Pharmacol. Clin., CHR Pellegrin, Pr.
Journal of Liquid Chromatography (1993), 16(3), 767-76
CODEN: JLCHD8, ISSN: 0148-3919

DOCUMENT TYPE: LANGUAGE: GI

10/513699

ES 2179822 NO 9301695 NO 9301694 20030201 19930527

19920911 19930510 <--19930630 NO 1993-1694 19930510 <--NO 303780 PI 111639 US 5569659 PRIORITY APPLN, INFO.: PI 1993-2104 US 1995-442600 US 1991-757881 US 1992-944006 WO 1992-US7754 WO 1992-US9082 US 1994-365978 19930510 19950517 <---A 19910911 B1 19920911 A 19920911 W 19921220 B) 19941228 20030829 19961029

OTHER SOURCE(S); MARPAT 119;117276

Title compds.4-RX(CH2)ncR1R2XIMNR)R4 | X = (un)substituted piperaxino, piperidino, X1 = (un)substituted Ph, R = aryl, CRIR2 = CH2, CO, 1,1-alkanedlyl, CHOH; W = CO, CS, SOZ; NR3R* = mmino; n = 0-41 (113 compds.) were prepared as antipsychotic agenta. Thus, 3-clclu2c6H4COCl was treated with piperaline and N-(2-isopropoxyphenyl)piperaxine to give the piperazine I which had an ED50 against apomorphine-induced emesis in dogs of 0.03mmg/kg orally in dogs lh before treatment with apomorphine.. 148826-90-80 Pla885-59-2P RL: BRC (Biological activity or effector, except adverse), BSU (Biological study, unclassified), SPN (Synthetic preparation), BIOL (Biological study), PREP (Preparation)
(preparation and antipsychotic activity of)
148826-90-8 CAPLUS
Piperidine, 1-(3-(3-methyl-4-phenyl-1-piperazinyl)methyl)benzoyl]- (9CI)
(CA INDEX NAME)

14883-59-2 CAPLUS
Piperidine, 1-[3-{(3-methyl-4-phenyl-1-piperazinyl)methyl}benzoyl}-,
monohydrochloride (9C1) (CA INDEX NAME)

<12/04/2007>

Erich Leese

A comparative study of lipophilicity in a series of 5-(1-aryl-4-piperazino)methyl-2-amino-1-oxazolines, i.e., I (R = H, Mer, Rl = H, Cl, F, Me, MeO, Bto, OH, CF3, Me2CH, NNe2, etc.) and II (X = CH, N), with antidepressant activity has been carried out using a RP-HPLC technique. This chromatog, method allowed the determination of log k'w values (k' = chromatog, column capacity factor) through extrapolation to 1004 water from capacity factors data. The partition coeffs, (log Po/W) and ionization consta. (RsA) were measured by classical methods. A good correlation between log Po/W and log k'w was found, confirming the feasibility of using the latter as a lipophilicity descriptor. In this homogeneous chemical series the nature and the position of the substituents on the aromatic ring did not induce important variations on the pKa values, whereas they accounted for a great part in lipophilicity data.

144881-48-1

RL: PRP (Properties)
(lipophilicity of. HPLC study of, structure in relation to)

144881-48-1

CAPHUS

2-oxazolamine, 4,5-dihydro-5-([4-(4-methoxyphenyl)-3-methyl-1-piperazinyl)methyl]- (SCI) (CA INDEX NAME)

L9 ANSWER 60 OF 134 CAPLUS COPYRIGHT 2007 ACS ON STN ACCESSION NUMBER: 1993;38860 CAPLUS DOCUMENT NUMBER: 18:38880

<12/04/2007

10/513699

AUTHOR (S)

Synthesis and antidepressant activity of 5-(1-aryl-4-piperazino)methyl-2-amino-2-oxazolines Bosc, J. J., Jarry, C., Carpy, A., Panconi, E., Descas, P., Lab. Chim. Phys., Univ. Bordeaux II, Bordeaux, 33076, Pr.

CORPORATE SOURCE:

SOURCE:

European Journal of Medicinal Chemistry (1992

1), 27(5), 437-42 CODEN: EJMCA5; ISSN: 0223-5234 Journal

DOCUMENT TYPE: LANGUAGE: GI

The synthesis of 20 5-(1-aryl-4-piperazino)methyl-2-amino-2-oxazolines, e.g., 1 (R * H, 2-, 3-, 4-Cl, 3,4-Cl2, 3-, 4-Me, 4-MeO, 4-MeZN, R1 * H, Mel, from arylpiperazines II and epichlorhydrin is described. I(R * H, 4-OMe, 4-OH, 4-OXe, R1 * H) had EDSO <200g/kg orally in the reserpine-induced hypothernia test in mice. Structure-activity relationships were studied and correlated with the nature of the aromatic substituent. Preliminary lipophilic and electronic properties of I (R, R1 + H) are reported.
35947-12-7
RL: RCT (Reactant), RACT (Reactant or resgent) (addition reaction of, with epichlohydrin in synthesis of arylpiperaziny)methylaminooxazoline)
35947-12-7 CAPLUS
Piperazine, 1-(4-methoxyphenyl)-2-methyl- (9CI) (CA INDEX NAME)

144881-48-1P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation and ancidepressant activity of) 144881-48-1 (APUS 2-Oxazolamine, 4,5-dihydro-5-[[4-(4-methoxyphenyl)-3-methyl-1-

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Erich Leese

canine cardiac Purkinje fibers (class III activity). All but one of the compds. demonstrated β-receptor affinity in a competitive binding assay and three had βi-receptor selectivity. Compared to socialol, a reference class II/III agent, I demonstrate βi-selectivity and was 1 order of magnitude more potent in the in vitro class III and the βi-receptor screens. I was evaluated further and found to be effective in preventing programmed elec. stimulation-induced arrhythmias in conscious dogs (class III activity) and against epinephrine-induced arrhythmias in halothane anesthetized dogs (class III activity). 155016-09-3P 135016-10-1P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified) SPN (Synthetic preparation), TRU (Therapeutic use); BIOL (Biological study); PREP (Preparation), USES (Usea) (preparation and antiarrhythmia activity of) 135016-09-8 CAPLUS Benzamide, 4-(imcthylsulfonyl)aminol-N-[(1-phenyl-2-piperazinyl)methyl]-(SCI) (CA INDEX NAME)

135036-10-1 CAPLUS
Mcthaneaulfonamide, N-[4-[[(1-phenyl-2-piperazinyl)methyl]aminolphenyl](9CT) (CA INDEX NAME)

135036-22-5P 135063-15-9P RL; SPN (Synthetic preparation); PREP (Preparation) (preparation of) 135036-22-5 CAPLUS

-Piperazinecarbonitrile, 1-phenyl-4-(phenylmethyl)- (9CI) (CA INDEX

piperazinyl]methyl]- (9CI) (CA INDEX NAME)

H2N

ANSWER 61 OF 134

ACCESSION NUMBER: DOCUMENT NUMBER: TITLE:

CAPLUS COPYRIGHT 2007 ACS on STN
1921:105215 CAPLUS
116:105215 CAPLUS
116:105215
Synthesis, cardiac electrophysiology, and
(P-blocking activity of novel arylpiperazines with
potential as class II/III antiarrhythmic agents
Phillips, Gary B., Morgan, Thomas K., Jr., Lumma,
William C., Jr., Gomes, Robert P., Lind, Joan M., Lis,
Randall; Argentieri, Thomas Y. Sullivan, Mark E.
Dep. Med. Chem., Berlex Lab., Inc., Cedar Knolls, NJ,
07927, USA
Journal of Medicinal Chemistry (1992),
15(4), 743-50
CODEN: JMCMAR, ISSN: 0022-2623
Journal AUTHOR (8): CORPORATE SOURCE:

SOURCE:

DOCUMENT TYPE: Journal

LANGUAGE: OTHER SOURCE(S): English CASREACT 116:106235

Cyclocondensation reaction of N-aryl-N'-(phonylmethyl)-1,2-ethanediamine with 2,3-dibromopropionamide followed by derivatization gave a series of novel arylpiperazines, e.g., I. Thus, the key step in the preparation of new compds, involves a regioselective heterocyclic ring formation. These were prepared in an attempt to incorporate both class II (β-receptor blocking) and class III antiarrhythmic properties in a single mol. All but four compds, significantly prolonged action potential duration in

<12/04/2007>

Erich Leese

10/513699

CAPLUS 2-Piperazinecarboxamide, N-(4-nitrophenyl)-1-phenyl-4-(phenylmethyl)-(9CI) (CA INDEX NAME)

L9 ANSWER 62 OF 134 ACCESSION NUMBER: DOCUMENT NUMBER; CAPLUS COPYRIGHT 2007 ACS on STN 1991:471649 CAPLUS 115:71649

TITLE: Preparation of N-arylpiperazinylmethylamides as

Preparation of N-arylpiperazinylmethylmmidem an antiarrhythmics.

Lumma, Milliam Carl, Jr., Morgan, Thomas Kenneth, Jr., Phillips, Gary Bruce Schering A.-G., Germany PCT Int. Appl., 77 pp.

CODEN: PIXXD2

Patent English INVENTOR (S) :

PATENT ASSIGNEE(S): SOURCE:

DOCUMENT TYPE: LANGUAGE;

PAMILY ACC. NUM. COUNT: PATENT INFORMATION:

DATE PATENT NO.

WO 9104250 A1 19910404 WO 1990-EF103W: CA, JP
RW: AT, BE, CH, DE, DK, ES, FR, GB, IT, LU, NL, SE
US 5051422 A 19910924 US 1989-408020
CA 2067156 A1 19920701 EP 1090-921657
R: AT, BE, CH, DE, DK, ES, FR, GB, IT, LI, LU, NL, S
JP 05500660 T 19930212 JP 1990-510812
US 5221623 A 19930629 US 1991-757741
US 1989-408020
PRIORITY APPLN. INFO:

CASREACT 115:71649, MARPAT 115:71649 PATENT NO. KIND DATE APPLICATION NO. 19900702 <--19890915 <--19900702 <--19900702 <--19900702 <--19910911 <--

<12/04/2007>

Title compds. (I, R = H. alkyl. PhCH2; R1, R2 = alkyl. alkoxy, halo, Z = NR3CO. NR3CH2. OCH2. NR3, NR3SO2; O = alkylsulfonylimino, Ol; R3 = H. alkyl. allyl, alkoxyalkyl. R4 = H. Me), were prepared as cardiovascular agents, primarily antiarrhythmics (no data). Thus. 4- ([methylsulfonyl)amino]-N-[(4-phenyl-1-(phenylmethyl)piperazin-2-yllmethyl)benzamide hydrochloride was hydrogenolzed in MeON over Pd(OH)2 to give title compound II. 135036-09-8P 135036-10-1P RL: BAC (Biological activity or effector, except adverse), BSU (Biological study, unclassified), SPN (Synthetic preparation), THU (Therapeutic use); BIOL (Biological study); PREP (Preparation), USES (Uses) (preparation of, as antiarrhythmic) Benzamide, 4-([methylsulfonyl)amino]-N-[(1-phenyl-2-piperazinyl)methyl]-(9CI) (CA INDEX NAME)

Methanesultonamide, N-[4-{((1-phenyl-2-piperazinyl)methyl]amino]phenyl]-(9CI) (CA INDEX NAME)

<12/04/2007>

Erich Leese

135036-33-8 CAPLUS
2-Piperazinecarboxylic acid, 1-phenyl-4-(phenylmethyl)- (9CI) (CA INDEX NAME)

135036-42-9 CAPLUS
2-Piperazinecarboxamide, N-[4-[(methylsulfonyl)amino]phenyl]-1-phenyl-4-(phenylmethyl)- (9C1) (CA INDEX NAME)

135036-43-0 CAPLUS
Methanesulfonamide, N-[4-{[[1-phenyl-4-(phenylmethyl)-2-piperazinyl]methyl|amino}phenyl]- (9CI) (CA INDEX NAME)

IT

135036-23-6 CAPLUS
2-Piperazinemethanamine, 1-phenyl-4-(phenylmethyl)- (9CI) (CA INDEX NAME)

135036-24-7 CAPLUS
Benzamide, 4-[(methylsulfonyl)amino]-N-[(1-phenyl-4-(phenylmethyl)-2-piperazinyl)methyl)- [9CI) (CA INDEX NAME)

10/513699

1)5063-15-9 CAPLUS
2-Piperazinecarboxamide, N-(4-nitrophenyl)-1-phenyl-4-(phenylmethyl)-(9CI) (CA INDEX NAME)

135036-24-7
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, in preparation of antiarrhythmic)
135036-24-7
CAPLUS
Benzamide, 4-((methylsulfonyl)amino]-N-[[1-phenyl-4-(phenylmethyl)-2-piperazinyl]methyl]- (9CI) (CA INDEX NAME)

L9 ANSMER 63 OF 134
ACCESSION NUMBER:
DOCUMENT NUMBER:
1389:231402 CAPLUS
110:231402
Synthesia, in vitro acetylcholine-storage-blocking activities, and biological properties of derivatives and analogs of trane-2-(4-phenylpiperidino) cyclohexanol (vesamicol)
AUTHOR(S):
AUTHOR(S):
ACREORATE SOURCE:
CORPORATE SOURCE:
DOCUMENT TYPE:

DOCUMENT TYPE:
CAPLUS COPPRION ACTION
1389:231402
APTION ACTION
1389:231402
APTION ACCES AND ACTION
1389:231402
APTION ACCES AND ACTION
1389:231402
APTION
1

DOCUMENT TYPE: LANGUAGE: OTHER SOURCE(B); GI

<12/04/2007>

Journal English CASREACT 110:231402

Eighty-four analogs, e.g., I [R = (un)substituted Ph, cyclohexyl, PhCH2, PhCH2]3] and derivs. of the acetylcholine storage-blocking drug crans-2-4(4-phenylpiperidino)cyclohexanol (vesamicol) were synthesized, and their potencies were evaluated with the acetylcholine active-transport assay utilizing purified synaptic vesicles from Torpedo elec. organ. The parent drug exhibits enantioselectivity, with (-)-vesamicol being 25-fold more potent than (-)-vesamicol. The mol. structure and absolute configuration of (-)-vesamicol were determined by x-ray crystallog. The absolute iguration of (-)-vesamicol is (IR,2R). Structure-activity evidence indicates that (-)-vesamicol does not act as an acetylcholine analog. Alterations to all three rings can have large effects on potency. Unexpectedly, analogs locking the alc. and ammonium groups trans-diequatorial or trans-diaxial both exhibit good potency. A potent benzowsamicol family was discovered that is suitable for factic elaboration of the sort useful in affinity labeling and affinity chromatog, applications. A good correlation was found between potencies as assessed by the acetylcholine transport assay found the suitable for the content of the sort useful in affinity and the suitable for mouse.

RECT (Reactant), RACT (Reactant or reagent)
(reaction with cyclohexene epoxide)

2946-76-1 CAPLUS
Piperazine. 2-methyl-1-phenyl- (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME)

L9 ANSWER 64 OP 134 CAPLUS COPYRIGHT 2007 ACS ON STN ACCESSION NUMBER: 1989:189237 CAPLUS DOCUMENT NUMBER: 110:189237 1999;199237 APALUS
110:189237
Synthesis and antincrobial activity of some pyrrole derivatives. III. 2-(4-Arylpiperazino)-3-ethoxycarbonyl-5-arylpyrrole derivatives
Cocco. M. T.; Congiu, C.; Maccioni, A.; Schivo, M. L.;
De Logu, A.; Palmieri, G.
1st. Chim. Parm. Toesicol. Appl., Univ. Cagliari, Cagliari, Italy
Farmaco, Edizione Scientifica (1988),
43(12), 951-60
CODEN: FRPSAX, ISSN: 0430-0920
Journal
English

AUTHOR (8):

CORPORATE SOURCE:

DOCUMENT TYPE:

LANGUAGE:

10/513699

OTHER SOURCE(S):

CASREACT 110:173198

The pyrazinobensodiazepine derivs. I (R = 9-, 10-, 11-Pc, 11-Me. 11-Meo) and (intinocthanolbensodiazocine derivs. II (R = 7-, 8-, 9-P) were prepared Thus, the anide III was cyclized by POCIJ to give the benzodiazepine TV, which was cyclized with MeN12 to give I (R = 10-P). I and II exhibited pronounced antipsychotic activity. The influence of fluorosubstitution and variation of the fused ring system were measured.

120107-24-6F
RL: RCT (Reactant): SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation and cyclization reaction of, pyrazinobenzodiazepine derivative from)

120107-24-6 CAPLUS
2-Thiophencerboxamide, N-{{1-(2-fluorophenyl)-4-methyl-2-piperazinyl)methyl}-, dihydrochloride (9CI) (CA INDEX NAME)

10/513699

The synthesis of the title compds. (I, R = H, Me; RI = H, halo; R2 +H, OMe, halo, NO2, alkyl, R3 = halo. Me, OMe) is described. The in vitro biol. Investigation showed that I (R = R1 H; R2 = 3-NO2; R3 = 4-Cl) had considerable antibacterial activity against gram-pos. microorganisms and antifungal activity against Candida rugosa, while the other I did not show significant activity.

120244-18-0P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
120244-18-0 CAPLUS
2-Propenoic acid, 3-amino-3-[3-methyl-4-(4-methylphenyl)-1-piperazinyl]-, ethyl ester (CA INDEX NAME)

IT

L9 ANSWER 65 OF 134 ACCESSION NUMBER: DOCUMENT NUMBER;

AUTHOR (S) :

CAPLUS COPYRIGHT 2007 ACS on STN
1989:173198 CAPLUS
110:173198 1,4-Benzodiazepines and 1,5-benzodiazocines. X1.
Synthesis and biological activity
Heitmann, Malter, Liepmann, Hans, Kraehling, Hermann,
Ruhland, Michael, Mol, Frans, Tulp, Martin T. M.
Pharm. Div., Kall-Chemia A.-C., Hannover, D-3000, Ped.
Rep. 0er.
European Journal of Medicinal Chemistry (1988), 23(3), 249-56
CODEN: EJMCAS; ISSN: 0223-5234
Journal
English

CORPORATE SOURCE:

DOCUMENT TYPE:

Brich Leese <12/04/2007>

10/513699

120107-04-2P

120107-04-2P (Synthetic preparation), PREP (Preparation)
(preparation and hydraxonolysis of)
10107-04-2 CAPLUS
1H-lsoindole-1,3(2H)-dione, 2-([1-{2-(luorophenyl)-4-methyl-2-piperaxinyllmethyl)- (9CI) (CA INDEX NAME)

120107-10-0P RE: RCT (Reactant), SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (preparation and intramol. cyclization of, pyrazinobenzodiazepine derivative from)

from)
120107-10-0 CAPLUS
2-Thiophenecarboxamide, N-{[4-methyl-1-(2-methylphenyl)-2-piperazinyl]methyl]- (9CI) (CA INDEX NAME)

120107-03-1P
RL: RCT (Reactant); SPN (Synthetic preparation), PREP (Preparation); RACT (Reactant or reagent)
(preparation and memylation of)
120107-03-1 CAPLUS

2-Piperazinemethanol, 1-(2-fluorophenyl)-4-methyl- (9CI) (CA INDEX NAME)

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

<12/04/2007>

· Brich Leese

10/513699

(preparation and reaction with potassium phthalimide) 120:107-22-4 CAPUS 2-Piperazinemethanol, 1-(2-fluorophenyl)-4-methyl-, methanesulfonate (ester) (9CI) (CA INDEX NAME)

120107-23-SP
RL: RCT (Reactant), SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and reaction with thiophenecarbonyl chloride)
120107-23-S CAPLUS
2-Piperazinemethanamine, 1-(2-fluorophenyl)-4-methyl- (9CI) (CA INDEX INAME) ΙT

ΙT 120107-05-3P

120107-05-3P
RE: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of)
120107-05-3 CAPLUS
2-Thiophenecarboxamide, N-{[1-(2-fluorophenyl)-4-methyl-2-piperazinyl]methyl]- (9CI) (CA INDEX.NAME)

120107-09-7P
RL: RCT (Reactant): SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)
(preparation, hydrazinolysis, and reaction with thiophenecarbonyl chloride)
120107-09-7 CAPLUS
110-1301401-1,3(2H)-dione, 2-[[4-methyl-1-(2-methylphenyl)-2piperazinyl]methyl]- (9CI) (CA INDEX NAME)

<12/04/2007>

Erich Leese

RL: USES (Uses)
(magenta image stabilizer, for light stability)
117209-45-7 CAPLUS
1-Piperazinebutanoic acid, 3-octyl-4-phenyl- (9CI) (CA INDEX NAME)

L9 ANSWER 67 OF 134
ACCESSION NUMBER:
DOCUMENT NUMBER:
198:473142 CAPLUS
109:73142
New 1-aubstituted 3-aryl-7-chloro-3,4-dihydro-2N-acridone N-oxides, a procedure for their preparation, formulations containing them, and their use as pharmaceuticals and feed additives
Dhar, Rajkumar, Venupopalan, Bindumadhavan, Chatterjee, Dipak Kumar, Rupp, Richard Melmut, De Souza, Noel John
PATENT ASSIGNEE(8):
SOURCE:
COCUMENT TYPE:
COCUMENT TYPE:
LANGUAGE:
PATENT ACC. NUM. COUNT:
1

Erich Leese

LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO. DATE KIND 19880204 19890708 19880127 19890419 DE 1986-3624702 IN 1986-BO149 EP 1987-110365 19860722 <--19860515 <--19870717 <--GR, IT, L1, LU, NL, SE ZA 1987-5297 US 1987-75643 DK 1987-3802 JP 1987-180207 HU 1987-3800 AT 1987-2609 FR, GB, 19880330 19870720 <--19880330 19890207 19880123 19880213 19880328 19881215 19890725 19870720 <--19870721 <--19870721 <--19870721 <--19871008 <--DE 1986-3624702 A 19860722 MARPAT 109:73142

120107-08-6P
RL: RCT (Reactant), SPN (Synthetic preparation), PREP (Preparation), RACT (Reactant or reagent)
(preparation, mesylation, and reaction with potassium phthalimide)
120107-08-6 CAPLUS
2-Piperazinemethanol, 4-methyl-1-(2-methylphenyl)- (9CI) (CA INDEX NAME) ΙT

L9 ANSMER 66 OF 134 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1988:601296 CAPLUS
DOCUMENT NUMBER: 199:201296
TITLE: Photographic material for light-stable images
Photographic material for light-stable images
Sugita: Shuichi: Shimada, Nacoshi; Kaneko, Yutaka;
Sugita: Shuichi: Shimada, Nacos
SURCE: ODEN: JRXXAF
DOCUMENT TYPE: Patent
LANGUAGE: PAKILY ACC, NUM, COUNT; 1

FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

DATE PATENT NO. APPLICATION NO.
JP 1986-246728
JP 1986-246728 KIND DATE 19861017 <--19861017

PATENT NO. KIND DATE APPLICATION NO. DATE

JP 03101848 A 19880506 JP 1986-246728 19861017 <-PRIORITY APPLIM. INFO:: 19865246728 19861017 <-PRIORITY APPLIM. INFO:: 19865246728 19861017 <-OI For diagram(s), see printed CA Issue.

A A phalide photog. material contains 21 magenta couples I [Z - atom required to complete N heterocycle; X - H, group releasable on reacting with oxidized form of color developing agent, R - H, substituent] and an image stabilizer II [R21 - SO3M, CO2M, M - H, monovalent metal; X - divalent organic group; Z - atoms required to form 5-7-membered N heterocyclel. Light-stable images are obtained and staining and fogging are minimized.

IT 117209-45-7

Erich Leese

10/513699

The title compds. I [R1,R3] = H, alkyl. carbalkoxy, Ph (un)substituted with alkyl, halo, or NH2; R2 = halo, CP3; n = 0-3; X = 0, N; when X = 0, R4 = alkyl, when X = N, KR4 = dlalkylamino, 5- or 6-membered heterocyclyl optionally containing another heteroatom, optionally substituted with (un)substituted alkyl or Ph (un)substituted with alkyl, alkoxy, or halo), having high activity against the pathogens of malaria and coccidiosis, were prepared A suspension of 7-chloro-3,4-dihydro-10-hydroxy-3-(4-trifluoromethylphenyl)-1,9(2H,10H)-acridinatione in MeON was treated dropwise with pyrrolidine at room temperature to give 78% I [R1 = R3 = H, (R2)n = 4-CP3, KR4 = pyrrolidine]. At 10-25 mg 1/ kg + 5 in mice infected with Plasmodium berghel, complete healing was achieved.

55117-80-1, 1(4-chlorophenyl)-2-methylpiperaxine
Li: RCT (Reactant): RACT (Reactant or reagent)
(aminollysis by, of hydroxyacridinedione derivative)

55117-80-1 CAPLUS
Piperaxine, 1-(4-chlorophenyl)-2-methyl-1 (9CI) (CA INDEX NAME)

L9 ANSWER 68 OF 134 ACCESSION NUMBER: DOCUMENT NUMBER: TITLE:

CAPLUS COPYRIGHT 2007 ACS on STN 1986:620995 CAPLUS 105:1220995 Piperazinylmethyl-1,2,4-triazolylmethylcarbinol fungicide fungicide
Holmwood, Graham, Buechel, Karl Heinz, Brandes,
Wilhelm, Reinecke, Paul
Bayer A.-O., Fed. Rep. Ger.
GOODN. GAY
PARKER, GAYANA
PARKER, GAYANA
PARKER, GAYANA
PARKER, GAYANA
PARKER, GAYANA
PARKER, GAYANA
PARKER, G

INVENTOR (S):

DOCUMENT TYPE; LANGUAGE;

FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

	PA'	TENT	NO				KIND		DATE		AP	PLICAT	ION	NO.		D.	ATE		
																	• • • • • •		
	DE	350	8909	,			A1		19860	918	DE	1985+	3508	909		1	9850313	<	
	US	473	896:	2			Α		1988	0419	US	1986-	8325	02		1	9860221	<	
	EP	198	191				A1		1986	1022	EP	1986-	1027	167		1	9860303	<	
	EP	198	191				Bl		1989	906									
		R:	A'	Г.	BE.	CH.	DE.	FR.	GB.	IT.	LI. N	L. SE							
	AT	461		•		,	T		1989	915	TA	1986-	102	767		1	9860303	<	
		865					À		1986	1016	AU	1986-	5443	3.3		1	9860307	<	
		612					A		1986	920	JP	1986-	5157	78		1	9860311	<	
		243		-			A5		1987	0318	DD	1986-	287	770		1	9860311	<	
		860					A		19860	914	DK	1986-	1144			1	9860312	<	
		860					A		1986	1125	BR	1986-	1052	2		1	9860312	<	
		860					A		1986			1986-				1	9860312		
		422		•			A2		1987			1986-					9860313		
		552					Al		1987			1986-					9860313		
					NFO.				1701			1985-			A		9850313		
PRIC	OK I.I.	Y AP	PLIN		NPO.	. :						1986-			Â		9860303		
												1380.	102	101	^		,,,,,,,		

OTHER SOURCE(S): CASREACT 105:220995

The title compds. I (R = substituted alkyl, alkenyl, alkynyl, cycloalkyl, aryl, aralalkyl, aryloxyalkyl, arylthioalkyl, R1 = N, alkyl, R2 = substituted alkyl, alkenyl, cycloalkyl, aryl heterocyclyl, Z = C0. 802; p = 0,or 1) are prepared as agricultural and medical fungicides. Thus, 16.7 g 2-tert-butyl-1-(1,2.4-triacyl-1-yl)methyloxirane. 16.2 g [3.2-tert-butyl-1-(1-1,2.4-triacyl-1-yl)methyloxirane. 16.2 g [3.3,dimethyl-2-(1-1)-(4-phenylpiperain-1-phenylpiperain-1-1-(4-phenylpiperain-1-1-yl)methyloxirane. 16.2 g [3.3,dimethyl-2-(1-1)-(4-phenylpiperain-1-1-yl)methyloxirane. 16.2 g [3.3,dimethyl-2-(1-1)-yl)methyloxirane. 16.2 g [3.3,dimethyl-2-(1-1)-(4-phenylpiperain-1-1-yl)methyloxirane. 16.2 g [3.3,dimethyl-2-(1-1)-(4-phenylpiperain-1-1-yl)methyloxirane. 16.2 g [3.3,dimethyl-2-(1-1)-(4-phenylpiperain-1-1-yl)methyloxirane. 16.2 g [3.3,dimethyl-2-(1-1)-(4-phenylpiperain-1-1-yl)methyloxirane. 16.2 g [3.3,dimethyl-2-(1-1)-(4-phenylpi

105411-76-5P
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPM (Synthetle preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation of, as fungicide)
105411-76-5 CAPLUS
1-Piperazineethanol, u-(1,1-dimethylethyl)-3-methyl-4-(4-methylphenyl)-a-(1H-1,2,4-triazol-1-ylmethyl)- (9CI) (CA INDEX NAME)

<12/04/2007>

Erich Leese

10/513699

L9 ANSWER 70 OF 134 CAPLUS COPYRIGHT 2007 ACS ON STN ACCESSION NUMBER: 1985:132069 CAPLUS

DOCUMENT NUMBER: TITLE:

1985;132069 CAPUS
102:132069
[[4-(4-Phenyl-1-piperazinyl)phenoxymethyl]-1,3dioxolan-2-yl]methyl]-1H-imidacoles and
1H-1,2.4-triazoles
Heeres, Jan, Stokbroekk, Raymond A.; Backx, Leo J. J.
Janssen Phermaceutica N. V.. Belg.
Eur. Pat. Appl., 113 pp.
CODEN. EPXXDW
Patent
English
1

INVENTOR(S); PATENT ASSIGNEE(S); SOURCE:

DOCUMENT TYPE:

PATENT NO. KIND DATE APPLICATION NO. DATE 19840912 19890614 EP 1984-200092 19840124 <--EP 118138 EP 118138 EP 118138
EP 118138
EP 118138
ER: AT. BE, CH,
US 4619931
AT 44030
CA 1271194
JP 59177486
JP 59177486
DK 8401070
DK 164454
DK 164454
DK 164454
DK 164454
DK 164454
DK 16454
DK 16455
DK 8400735
NO 8400735
NO 160138
NO 160138
AU 8425097
AU 559461
EX 530140
EX 530140
EX 530140
EX 530140
EX 530140 LI, LU, NL, SE US 1984-569122 AT 1984-200092 CA 1984-447194 JP 1984-32768 19890614 GB, IT, 19861028 19890615 19900703 19840929 19950510 19840829 19920629 19921109 19840109 <--19840124 <--19840210 <--19840224 <--19840227 <--DK 1984-1070 19921109 19840829 19900928 19910110 19840829 19881205 19890315 19340906 19870312 19851030 19871220 19840227 <--FI 1984-781 19840227 <--AU 1984-25097 19840227 <--19840227 <-19840227 <-19840228 <-19840228 <-19840228 <-19860602 <-19870527 <--ZA 1984-1449 IL 1984-71066 IL 1984-71066 ES 1984-530138 ES 1984-530140 ES 1984-530139 US 1986-869537 NO 1987-2221 19850506 19850601 19850901 19880405 19840829 19900417 19900725 19910628 19911010 19940829 199311010 19940216 19930924 19950712 19950712 19950429 ES 530140 US 4735942 NO 8702221 NO 163817 NO 163817 US 4861879 CA 1309412 PI 84058 PI 84058 PI 84058 NO 173866 NO 173866 NO 173866 US 1988-154173 CA 1989-615528 PI 1989-5089 19880209 <--19891025 <--19891026 <--NO 1990-396 19900129 <--NO 173866
JP 05246999
JP 07064823
DK 9100783
DK 9101088
DK 166673
PRIORITY APPLN. INPO.: 19910124 <--JP 1991-24132 19910429 <--19910607 <--US 1983-670405 A 19830228

10/513699

L9 ANSMER 69 OF 134 CAPLUS COPYRIGHT 2007 ACS ON STN
ACCESSION NUMBER: 1986;566904 CAPLUS
DOCUMENT NUMBER: 105:166904 CAPLUS
TITLE: 105:166904 CAPLUS
Herbicide antidote
Foory, Merner: Nyffeler: Andreas; Gerber, Hans Rudolf;
Martin, Henry
CUBEN: EXXDW
DOCUMENT TYPE: Eur, Pat. Appl., 143 pp.
CODEN: EXXDW
PATENT ACC NUM COURT: 1

PAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PAT	EN	T I	NO.			KIN	D	DATE			AP	PLICATION NO.		DATE	•
	٠		. 										• •		
EP	19	01) 5			A2		1986	0806		EP	1986-810046		19860127	<
EP	19	01	5			A3		1988	1026						
	R	:	BE,	CH.	DE,	FR,	GB,	IT,	LI,	NL					
CA	12	78	595			С		1991	0108		CA	1986-500569		19860129	<
BR	86	00	883			Α		1986	1014		BR	1986-383		19860130	<
JΡ	61	17	5504			A		1986	8080		JP	1986-20005		19860131	<
 ×		nn.		7 1170							CH	1005.410		10050131	

PRIORITY APPLN. INFO.: OTHER SOURCE(5):

ORTHY APPUN. INFO::

MARPAT 105:166904

The dichloroacetamides RRINGOCHC12 (R.R.1 = H. (un) substituted alkyl, alkenyl, cycloalkyl, cycloalkyl, etc., NRR1 = heterocyclic radical) are prepared as antidotes for the N-(2-methoxycarbonyl)henylsulfonyl)-N-(4,6-indichloroacetamides (represented as antidotes) and the N-(2-methoxycarbonyl)henylsulfonyl)-N-(4,6-indichloroacetamides) and the N-(3,4-dimethoxybenzyl)-N-isopropylamine (preparation given) with Cl2citcocl, in NGH-containing Meph, at -10-to-15*, gave N-(3,4-dimethoxybenzyl)-N-isopre dichuloroacetanilide. When (H2CICHCH2) ENCOCHIC1 (200 g/ha) was applied to corn in tank mixture with 400 g //ha, 754 protection against the phytotoxicity of I to the crop was observed
104767-29-80 (Biological Study), unclassified), SPH (Synthetic preparation), BIO (Biological Study), PREF (Preparation), USES (Uses)
104767-29-5 CANDUS
Piperatine, 4-(dichloroacetyl)-1-(4-methoxyphenyl)-2-methyl- (9CI) (CA INDEX NAME)

<12/04/2007>

Erich Leese

10/513699

OTHER SOURCE(S):

US 1986-869537 ; MARPAT 102:132069 CASREACT 102:132069:

Over 300 title compds. I [R = (un)substituted Ph; R1 = H, alkyl; R2 = urea. thiourea, amido, 5-membered N-containing heterocycle; X = N. CH] and their intermediates, useful as pharmaceutical fungicides, were prepared Thus, aniline derivative II (R3 = H) was treated with ClCO2Ph to give II (R3 = CO2Ph). At 2.5 mg/kg orally, daily for 3 days in rats, II (R3 = CO2Ph) controlled Candida albicans at the 14th day after infection. 95182-89-1P
RL: RCT (Reactant). SPN (Synthetic preparation), PREP (Preparation); RACT (Reactant or reagent) (preparation and acylation of) 95182-89-1 CAPLUS
Phenol, 4-(2-methyl-1-piperazinyl)-, dihydrobromide (9CI) (CA INDEX NAME)

•2 HBr

95182-91-5P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation and deacylation of)
95182-91-5 CAPILUS
Piperaxine, 4-acetyl-1-[4-{[2-(2,4-dichlorophenyl)-2-(1H-1,2,4-triazol-1-ylmethyl)-1,3-dioxolan-(-yl]methoxy]phenyl]-2-methyl- (9CI) (CA INDEX NAME)

<12/04/2007>

Erich Leese

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L9 ANSWER 71 OF 134 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1984:490876 CAPLUS
101:90876
TITLE: 1984:490876 CAPLUS
101:90876
Hexahpdroimidazo[1,5-a]pyrazines. II. Synthesis of 7-phenyl-1.5,6.7,8.8a-hexahpdroimidazo[1,5-a]pyrazin-3[2H]-one and derivatives
AUTHOR(S): 105a. E.; Omodei-Sale. A.; Corsico. N.
Lab. Ric., Gruppo Lepetit S.p.A., Milan, Italy
SOURCE: 450-62
CODEN: FRPSAX; ISSN: 0430-0920
CODEN: FRPSAX; ISSN: 0430-0920
TOTHER SOURCE(S): CASREACT 101:90876

DOCUMENT TYPE: LANGUAGE: OTHER SOURCE(S): GI

Title compds. I (R - Ph. tolyl, ClC6H4, anisyl, Me, allyl), useful as central nervous system depressants, were prepared from piperazines II (R1 - Ph. tolyl, ClC6H4 anisyl, H). A mixture of II (R1 - H) and II,1'-carbonyldimidacole in THF was kept II days at room temperature, and the product was treated with NaH and MeI in DMF to give I (R - Me), 91512-79-5 PRL: SPW (Synthetic preparation), PREP (Preparation) (preparation of) 91522-79-5 CAPLUS II.

2-Piperazinecarboxylic acid, 1-phenyl-4-(phenylmethyl)-, methyl ester (9CI) (CA INDEX NAME)

<12/04/2007>

L9 ANSWER 72 OF 134 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NIDMIER:
101:90274 CAPLUS
TITLE:
ANTIMOVER:
AUTHOR(3):
CORPORATE SOURCE:
CORPORATE SOURCE:
1081. Pharm., Johannes Gutenberg-Ohiov. Mainz. 6500,

Brich Leese

10/513699

IT 35947-12-7P
RE: RCT (Reactant), SPN (Synthetic preparation), PREP (Preparation), RACT (Reactant or reagent) (preparation and hydrolysis of) 35947-12-7 CAPLUS Piperasine, 1-(4-methoxyphenyl)-2-methyl- (9CI) (CA INDEX NAME)

95182-90-4P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation), RACT
(Reactant or reagent)
(preparation and reaction of, with dioxolanemethanol derivative)
95182-90-4 CAPLUS
Piperazine, 4-acetyl-1-(4-hydroxyphenyl)-2-methyl- (9CI) (CA INDEX NAME)

<12/04/2007>

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Fed. Rep. Ger. Archiv der Pharmazie (Weinheim, Germany) (1984). 317(5), '417-20 CODEN: ARPMAS; ISSN: 0365-6233 JOURNAL

DOCUMENT TYPE:

LANGUAGE:

Aminomethylating HZNCN with s-trazine in the presence of sacondary amines gave cyanomethylene heterocycles I and II [R = Mo, Rl = p-Cl, R = N, Rl = p. Mo, Rl = p-Cl, R = N, Rl = p. Mo, Rl = p-Cl, R = N, Rl = p. Mo, Rl = p-Cl, R = N, Rl = p. Mo, Rl = p-Cl, R = N, Rl = p. Mo, Rl = p-Cl, R = N, Rl = p. Mo, R

55117-80-1
RL: RCT (Reactant), RACT (Reactant or reagent)
(reaction of, with cyanamide and triazine)
55117-80-1 CAPLUS
Piperazine, 1-(4-chlorophenyl)-2-methyl- (9CI) (CA INDEX NAME) IT

<12/04/2007>

L9 ANSMER 73 OF 134 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1984.422499 CAPLUS
DOCUMENT NUMBER: 101:23499
TITLE: Piperazine derivatives with anticholinergic and ancinistaminic activity
Milani. Carlo, Carminati, Glovanni Maria; Sovera, Attilio
PATENT ASSIGNEE(S): Selvi e C. S.p.A., Italy
SOURCE: Selvi e C. S.p.A., Italy
DOCUMENT TYPP.
DOCUMENT TYPP.

DOCUMENT TYPE: Patent

LANGUAGE:

FAMILY ACC. NUM. COUNT; PATENT INFORMATION:

	PATENT' NO.	KIND	DATE	APPLICATION NO.	DATE
	BE 897828	A2	19840116	BE 1983-60212	19830927 <
	US 4457931	A	19840703	US 1982-424512	19820927 <
	ZA 8306949	A	19840530	ZA 1983-6949	19830919 <
	JP 59089665	A	19840523	JP 1983-176190	19830922 <
	JP 61039289	В	19860903		
	PR 2533564	Al	19840330	PR 1983-15172	19830923 <
	FR 2533564	В1	19861003		
	DE 3334757	A1	19840329	DE 1983-3334757	19830926 <
	ES 525953	A1	19860201	ES 1983-525953	19830926 <
	AT 8303412	A	19880915	AT 1983-3412	19830926 <
	AT 387964	В	19890410		
	NL 8303311	A	19840416	NL 1983-3311	19830927 <
	GB 2135991	A	19840912	GB 1983-25839	19830927 <
	GB 2135991	8	19851204		
	ES 542946	A1	19860101	ES 1985-542946	19850416 <
	ES 542947	A1	19860101	ES 1985-542947	19850416 <
	RITY APPLN. INFO.:.				A 19820927
OTHE G1	R SOURCE(S):	CASRE	ACT 101:2349	9; MARPAT 101:23499	

<12/04/2007>

Erich Leese

2946-76-1
RL: RCT (Reactant), RACT (Reactant or reagent)
(reaction of, with chloroethylmorpholine)
2946-76-1
CAPLUS
Piperazine, 2-methyl-1-phenyl- (6CI, '7CI, 8CI, 9CI) (CA INDEX NAME)

L9 ANSMER 74 OF 134 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION RUMMER:
1984:407184 CAPLUS
101:7184
PYRIGOPYRIGHT CHORES, their use, and drugs containing them
INVENTOR(S):
REMM, KURT, Pruesse, Moltgang; Baron, Lothar, Kilian, Ulrich, Sanders, Karl
PATENT ASSIONEE(S):
SOURCE;
COPYRIGHT COMMENT TYPE:
CODEN GRAXEX
PAHENT ASSIONEE(S):
PAHENT HOPORMATION:
PAMENT REM GRAYER
COPYRIGHT COUNT:
PAMENT REM GRAYER
COPYRIGHT CAPLUS
COPYRIGHT

LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO. APPLICATION NO. DE 3326118
PRIORITY APPLN. INFO.:
OTHER SOURCE(S);
G1 DE 1983-3326118 CN 1982-4651 A1 19840209 19830720 <--A 19820802

MARPAT 101:7184

10/513699

Aminoalkylpiperazines I (X = alkylene, R = aryl, aralkyl, heterocyclic, Rl = H, alkyl, R2, R3 = H, alkyl, cycloalkyl, aryl, NR2R3 = heterocyclic) were prepared Thus, 1-(2-pyidyl)piperazine was treated with BrithMcH2CO2Rt and the resulting ester reduced to the alc., brominated, and aminated with 1-adamantylamine to give II. II had an anticholinergic EDSO in vitro of 0.001.ug/mL. 90476-58-79 90476-80-5P
RL: SPN (Synthetic preparation), PREP (Preparation) (preparation anticholinergic and antihistaminic activity of) 90476-58-7 CAPLUS
MORPHOLINE, A-[2-(3-methyl-4-phenyl-1-piperazinyl)ethyl]- (9CI) (CA INDEX NAME)

90476-80-5 CAPLUS Morpholine, 4-[2-(3-methyl-4-phenyl-1-piperazinyl)ethyl)-, trihydrochloride (9CI) (CA INDEX NAME)

● 3 HC1

<12/04/2007> Erich Leese

Title compds. (I) (R = H, C1-5 alkyl, R1 = C1-5 alkyl; R2 = H, C1-3 alkyl, R3 = H, halo, C1-4 alkyl or alkoxy. CF); R4 = H, halo, C1-4 alkyl or alkoxy) and their N-oxides and malts were prepared and shown to have antihypertensive activity. Thus, 8-(13-14-(2-methoxyphenyl)-1-piperazinyllpropyllaminol-1,3-dimethyluracil was added to CH2:CHCO2Et, and the product spannified, then cyclized by hearing 1 h at 140*/12-15 mbar to give the pyridopyrhidinetrione II.
89988-10-6P \$9999-11-activity or effector, except adverse); BSU (Biological study, unclessified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation of, as antihypertensive)
89989-10-6 CAPLUS
Pyrido(12,3-d)pyrimidine-2,4.7(1H,3H,6H)-trione, 5,8-dihydro-1,3-dimethyl-8-[3-(3-methyl-4-(4-methylphenyl)-1-piperazinyl)propyl)- (9CI) (CA INDEX NAME)

89989-11-7 CAPLUS Pyrido[2,3-d]pyrimidine-2,4,7(1H,3H,6H)-trione, 8-[3-[4-(4-chlorophenyl)-3-methyl-1-piperazinyl]propyl)-5,8-dihydro-1,3-dimethyl- (9CI) (CA INDEX NAME) RN CN

ĵТ

35947-11-6 55117-80-1
RL: RCT (Reactant); RACT (Peactant or reagent)
(reaction of, with (chloropropyl)pyridopyrimidinetrione derivs.)
35947-11-6 CAPIUS
Piperazine, 2-methyl-1-(4-methylphenyl)- (CA INDEX NAME)

55117-80-1 CAPLUS Piperazine, 1-(4-chlorophenyl)-2-methyl- (9CI) (CA INDEX NAME)

<12/04/2007>

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1H-Purine-2,6-dione, 3,7-dihydro-1,3-dimethyl-7-{4-(3-methyl-4-phonyl-1-piperazinyl)butyl}- (9CI) (CA INDEX NAME)

81996-78-3 CAPLUS |||-Purine-2,-6-dione, 3,7-dihydro-1,3-dimethy|-7-[5-(3-methyl-4-phenyl-1-|piperaziny|)penty||- (9C1) (CA INDEX NAME)

81996-79-4 CAPLUS
1H-Purine-2,6-dione, J.7-dihydro-7-(2-[4-(4-methoxyphenyl)-3-methyl-1-piperasinyl]echyl)-1,3-dimethyl- (9CI) (CA INDEX NAME)

81996-80-7 CAPLUS 1H-Purine-2,6-dione, 3,7-dihydro-7-[5-[4-(4-methoxyphenyl)-3-methyl-1-piperazinyl|pentyl]-1,3-dimethyl- [9CI] (CA IMDEX NAME)

Erich Leese

10/513699

L9 ANSMER 75 OF 134 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1984:85510 CAPLUS
DOCUMENT NUMBER: 100:85510
TITLE: Theophylline derivatives as cerebral circulation improvers
PATENT ASSIGNEE(8): Sissi Co., Ltd., Japan
SOURCE: CODEN; KKXAP
DOCUMENT TYPE: CAPUT CODEN; KKXAP
PATENT ACC. NUM COUNT.

LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

DATE APPLICATION NO. PATENT NO. KIND

JP 58150511 PRIORITY APPLN. INFO.; JP 1982-31686 JP 1982-31686 19820302 <--19830907

Ninety-five theophyllines I (R = H, Me; R1 = aryl, Ph2CH, pyridyl; n = 2-10) were prepared and were effective cerebral vasodilators at 0.1-10 µg/kg. Thus, refluxing 7-[2-bromoethyl]theophylline 6.3, piperazine II 5.7, and Exh 4.0 g in C6H6 18.5 h gave 42.5% I.RCl (R = H, R1 = p-chlorobenzhydryl, n = 2).
81996-76-19 81996-77-2P 81996-78-19
81996-79-4P 81996-80-7P 81996-78-4-1P
RL: SPN (Synthetic preparation), PREP (Preparation) (preparation of)
81996-76-1 CAPLUS
1H-Purine-2.6-dione, 3.7-dihydro-1,3-dimethyl-7-(2-(3-methyl-4-phenyl-1-piperazinyl)ethyl)- (9C1) (CA INDEX NAME) ВA

81996-77-2 CAPLUS

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RN CN

81996-84-1 CAPLUS
1H-Purine-2,6-diome, 7-(7-[4-(3-chlorophenyl)-3-methyl-1piperazinyl heptyl)-3,7-dihydro-1,3-dimethyl-, monohydrochloride (9CI)
(CA INDEX NAME)

L9 ANSHER 76 OF 134 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1594:68315 CAPLUS
DOCUMENT NUMBER: 100:68315
THEODORDING derivatives as brain circulation improvers
BATENT ASSIGNEE(9): 818a1 Co., Ltd., Japan
SOURCE: CODEN: JKXXAF
DOCUMENT TYPE: CODEN: JKXXAF
PALENT ACCESSION CONTROL CONTROL
ANDUAGE: 718a2 ACCESSION CONTROL CONTROL
ANDUAGE NING CONTROL
ANDUAGE ACCESSION CONTROL CONTROL CONTROL
ANDUAGE ACCESSION CONTROL CONT

DOCUMENT TYPE: LANGUAGE: PAMILY ACC. NUM. COUNT: PATENT INFORMATION:

DATE APPLICATION NO. DATE PATENT NO. KIND JP 58148820 PRIORITY APPLN, INFO.: JP 1982-29043 JP 1982-29043 19820226 <--19830905

Pifty-five theobromine derivs. (I; R = H, slkyl; Rl = aryl, benzhydryl; n = 2-10) and their acid adducts, effective brain circulation improvers at 0.1-10 µg/kg, were prepared Thus, a mixture of theobromine derivative III 3.6, and EL3N 4.0 g in MePh was refluxed 13 h to give 41.644 I (R = H, Rl = 2.3-xylyl, n = 4).

81995-72-4P 81995-73-75 81995-74-6P
81995-75-7P 81995-76-8P 81995-77-9P
81995-78-0P 81997-11-7P
RL: SPN (Synthetic preparation); PREP (Preparation) (preparation of 181995-72-4 CAPLUS III-Purine-2.6-dione. 3.7-dihydro-3.7-dimethyl-1-(3-(3-methyl-4-phenyl-1-piperazinyl)propyl) (9CI) (CA INDEX NAME)

81995-73-5 CAPLUS |||-Purine-2,6-diona, 3,7-dihydro-3,7-dimethy|-1-[4-(3-methyl-4-phonyl-)-||piperaziny||bucyl|- (9C) (CA INDEX NAME)

<12/04/2007>

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81995-78-0 CAPLUS
1H-Purinc-2,6-dione, 3.7-dihydro-1-[4-[4-(4-methoxyphenyl)-3-methyl-1piperazinyl]butyll-3,7-dimethyl- (9Cl) (CA INDEX NAME)

81997-11-7 CAPLUS
1H-Purine-2.6-dione, 3.7-dihydro-3.7-dimethyl-1-[2-(3-methyl-4-phenyl-1-piperazinyl)echyl]- (9CI) (CA INDEX NAME)

L9 ANSMER 77 OF 134 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION HUMBER:
DOCUMENT NUMBER:
1983:600512 CAPLUS
99:200512
Composition for the treatment of pain, fever, tissue and/or bone and joint inflammation, containing theobromine or theophylline derivatives as active constituents
Kaneko, Takeru, Ozaki, Satoru, Takizawa, Kimie; Sugimoto, Hachiro
PATENT ASSIGNEE(S):
Elsai Co., Ltd., Japan
Oer. Often., 80 pp.
CODEN: OWXNEX
DOCUMENT TYPE:
LANGUAGE;
PAMILY ACC. NUM. COUNT:
1

<12/04/2007>

10/513699

81995-74-6. CAPLUS 1H-Purine-2,6-dione, 3,7-dihydro-3,7-dimethyl-1-[5-(3-methyl-4-phenyl-1-piperazinyl)pentyl] - (9CI) (CA INDEX NAME)

81995-75-7 CAPLUS 1H-Purine-2.6-dione, 3.7-dihydro-3.7-dimethyl-1-[6-(3-methyl-4-phenyl-1-piperazinyl)hexyl]- (9CI) (CA INDEX NAME)

81995-76-8 CAPLUS 1H-Purine-2.6-dione, 3.7-dihydro-1-[2-[4-(4-methoxyphenyl)-3-mathyl-1-piperazinyl|ethyl|-3.7-dimethyl- (9CI) (CA INDEX NAME)

81995-77-9 CAPLUS
1H-Purine-2.6-dione, 3,7-dihydro-1-[3-[4-(4-methoxyphenyl)-3-methyl-1-piperaxinyl]propyl]-3,7-dimethyl- (9CI) (CA INDEX NAME)

<12/04/2007>

Erich Leese

10/513699

PATENT INFORMATION:

PATENT NO.	KIND DATE	APPLICATION NO.	DATE
DE 3307395	A1 19830908	DE 1983-3307395	19830302 <
JP 58148818	A 19830905	JP 1982-31684	19820302 <
JP 01018050	B 19890403		
JP 58148819	A 19830905	JP 1982-31685	19820302 <
JP 01013689	B 19890307		
EP 87810	A1 19830907	EP 1983-102019	19830302 <
EP 87810	B1 19860625		
R: BE, CH, DE,	FR, GB, IT, LI, NI	., SE	
US 4543254	A 19850924	US 1983-471564	19830302 <
US 4599337	A 19860708	US 1985-755404	19850716 <
PRIORITY APPLN, INFO.:		JP 1982-31684 A	19820302
		JP 1982-31685 A	19820302
		US 1983-471564 A	3 19830302
OTHER SOURCE(S):	CASREACT 99:200512	, MARPAT 99:200512	
GI			

I, in which one of A and B is Me and the other is Q (R is H or lower alkyl, Z is cGHJXIX2 [X1 and X2 are H, lower alkyl or alkoxy, F3C, or halogen], pyridyl, or CH(CSH4Y1)(CGH4Y2) [Y1 and Y2 are H, lower alkyl or alkoxy, F3C, or halogen], X is N or C, m is 2 or 3, and n is 2-10) are analgesics, antipyretics, and inflammation inhibitors. Analgesic activity (EDB50), LD50, and LD50/ED50 ratio values of representative compds. in mice and rats, antipyretic, and antiphlogistic activities are reported. Thus, 7-(2-bromeothyl)thene/phylline [23146-05-6] and 1-(p-chlorobenzhydryl)piperazine [303-26-4) were refluxed with EIN in C6H6, the EIN.RCI obtained was filtered, the filtrate was extracted with dilute HCl, made alkaline and extracted with CHCl3. The extract was washed, dried, borated, and the crystals were converted to the HCl salt and recrystd, from Mc Cellosolve-H2O to obtain 7-[2-[4-(p-chlorobenzhydryl)piperazinyl]ethyl)the ophylline-2HCl [22013-70-5]. Formulation of tablets and capsules with typical exciptents is described.

81995-72-4P 81995-73-5P 81995-74-6P 81995-77-3P 81995-78-0P 81995-78-0P 81995-78-0P 81995-78-0P 81995-78-0P 81995-78-0P 81995-78-0P 81996-79-1P 81996-79-1P

<12/04/2007>

81997-11-7P 87798-78-37
RL: THU (Therapeutic use): BIOL (Biological study): PREP (Preparation);
USES (Uses)
(preparation of, for analgesics and antipyretics and inflammation inhibitors)
a1995-72-4 CAPLUS
1H-Purine-2,6-dione, 3,7-dihydro-3,7-dimethyl-1-[3-(3-methyl-4-phenyl-1-piperazinyl)propyl]- (9CI) (CA INDEX NAME)

81995-73-5 CAPLUS
1H-Purine-2,6-dione, 3,7-dihydro-3,7-dimethyl-1-[4-(3-methyl-4-phenyl-1-piperazinyl)butyl]- (9CI) (CA INDEX NAME)

81995-74-6 CAPUS 1H-Purine-2,6-dione, 3,7-dihydro-3,7-dimethyl-1-[5-(3-methyl-4-phenyl-1-piperazinyl)pentyl) (9C1) (CA 1MDEX NAME)

81995-75-7 CAPLUS |H-Purine-2,6-flone, 3,7-dihydro-3,7-dimethyl-1-[6-(3-methyl-4-phenyl-1-piperarinyl)hexyll- (9CI) (CA INDEX NAME)

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81996-77-2 CAPLUS
1H-Purine-2,6-0ne, 3,7-dihydro-1,3-dimethyl-7-[4-(3-methyl-4-phenyl-1-piperaxinyl)butyl|- (9C1) (CA INDEX NAME)

81996-79-4 CAPLUS 1H-Purine-2,6-dione, 3,7-dihydro-7-(2-[4-(4-methoxyphenyl)-3-methyl-1-piperazinyllethyll-1,3-dimethyl- (SCI) (CA INDEX NAME)

81996-80-7 CAPLUS
1H-Purine-2.6-dione, 3.7-dihydro-7-[5-[4-(4-methoxyphenyl)-3-methyl-1-piperaxinyl)pentyll-1,3-dimethyl- (9CI) (CA INDEX NAME)

Erich Leese

81995-76-8 CAPLUS
IH-Purine-2,-6idne, 3,7-dihydro-1-(2-[4-(4-methoxyphenyl)-3-methyl-1-piperazinyl)ethyll-3,7-dimethyl- (SCI) (CA INDEX NAME)

81995-77-9 CAPLUS
1M-Purine-2,6-dione, 3,7-dihydro-1-[3-[4-(4-methoxypheny1)-3-methyl-1-piperaxinyllpropyl)-3,7-dimethyl- (9CI) (CA INDEX NAME)

81995-78-0 CAPLUS
IH-Purine-2.6-dione, 3,7-dihydro-1-[4-[4-(4-methoxypheny1)-3-methyl-1-piperzinj]buryl]-3,7-dimethyl- (SCI) (CA INDEX NAME)

81996-76-1 CAPLUS 110-Purine-2,6-dione, 3,7-dihydro-1,3-dimethyl-7-{2-(3-methyl-4-phenyl-1-piperazinyl)ethyll- (9CI) (CA INDEX NAME)

<12/04/2007>

Erich Leese

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81996-84-1 CAPLUS
1H-Purine-2,6-dione, 7-[7-[4-(3-chlorophenyl)-3-methyl-1piperazinyl|heptyl|-3,7-dihydro-1,3-dimethyl-, monohydrochloride (9CI)
(CA INDEX NAME)

• HC)

81997-11-7 CAPLUS 1H-Purine-2,6-dione. 3,7-dihydro-3,7-dimethyl-1-[2-(3-methyl-4-phenyl-1-piperazinyl)ethyll- (9CI) (CA INDEX NAME)

a7798-78-5 CAPLUS
1H-Purine-2,6-dione, 3,7-dihydro-1,3-dimethyl-7-[3-(3-methyl-4-phenyl-1-plperazinyl)propyl]- (9CI) (CA INDEX NAME)

L9 ANSWER 78 OF 134 CAPLUS COPYRIGHT 2007 ACS ON STN
ACCESSION NUMBER: 1983:470678 CAPLUS
DOCUMENT NUMBER: 99:70678
TITLE: Chemistry of 1.3-bifunctional compounds. XXVII.
Preparation of 4-D-substituted piperatinyl-1-propyl

AUTHOR (S):

esters
Pelfoldi, K.; Molnar, A.; Apjok, J.; Czombos, J.;
Notheisz, F.; Karpati, E.
Dep. Org. Chem., Jozsef Attila Univ., Szeged, 6720,
Rung.
Acta Physica et Chemica (1982), 28(3-4),
CODEN. AUSHAP; ISSN: 0001-6721

DOCUMENT TYPE: LANGUAGE: OTHER SOURCE(S): GI English CASREACT 99:70678

RCO2 (CH2) 3N

N-Piperazinepropanol esters I [R = Ph, methoxy-, halo-, or methylphenyl, xanthenyl, methoxycyclohexyl, furyl, Rl = H, Me; R2 = alkyl, alkenyl, cyclohexylmethyl, phenylalkyl, PhocNaCkl2, CO2Et, PhCH;CHCH2, 2.6-Ma2C6H3, enlight, Chicle Ph, tolyl, Me2C6H3, anisyl, chlorophenyl, FSCC6H4, pyridyl, (un)substituted benzyl] were prepared some of the above products exhibited antiarrhythmic activity. Thus, 1-(3.hydroxypropy)l-4-(isopropy)piperazine was treated with 3-MeOC6H4COCl to give I (R = 3-MeOC6H4, R1 = H, R2 = CHMe2).
86571-52-0P
RL: RCT (Reactant): SFN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and esterification by, of acid chlorides)
86571-52-0 CAPLUS
1-Piperarinepropanol, 3-methyl-4-(4-methylphenyl)- (9CI) (CA INDEX NAME)

(CH2) 3 - OH

86571-63-1P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and esterification by, of benzoyl chlorides)
86571-53-1 CAPLUS
1-Piperarinepropanol, 4-(4-methoxyphenyl)-3-methyl- (9CI) (CA INDEX NAME)

<12/04/2007>

Erich Leese

10/513699

86571-90-6 CAPLUS 9H-Xanthene-9-ratboxylic acid, J-(J-methyl-4-(4-methylphenyl)-1-piperazinyllpropyl ester, dihydrochloride (9C1) (CA INDEX NAME)

●2 HC1

86572-02-3 CAPLUS Benzolc acid, 2-methyl-, 3-[4-(4-methoxyphenyl)-3-methyl-1-piperazinyllpropyl ester, dihydrochloride (9C1) (CA INDEX NAME)

10/513699

86571-88-2P 86571-89-3P 86571-90-6P 86572-02-3P 86572-03-4P 86585-77-5P RL: SPN (Synthetic preparation); PREP (Preparation) (preparation of) 86571-88-2 CAPLUS Benzoic acid, 2-chloro-, 3-[3-methyl-4-(4-methylphenyl)-1-piperazinyl]propyl ester, dihydrochloride (9CI) (CA INDEX NAME) IT

86571-89-3 CAPLUS Benzoic acid, 3-methoxy-, 3-[3-methyl-4-(4-methylphenyl)-1-plpersizinyllpropyl ester, dihydrochloride (9CI) (CA INDEX NAME)

<12/04/2007>

Erich Leese

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86572-03-4 CAPLUS Benzoic acid, 3-methoxy-, 3-{4-(4-methoxyphenyl)-3-methyl-1-piperazinyl|propyl ester, dihydrochloride (9CI) (CA INDEX NAME)

<12/04/2007>

86585-77-5 CAPLUS
1-Piperazinepropanol, 4-(4-methoxyphenyl)-3-methyl-, benzoate (ester), dihydrochloride (9CI) (CA INDEX NAME)

● 2 HC1

15947-11-6 15947-12-7
RL: RCT (Reactant): RACT (Reactant or reagent)
(M-alkylation of, by chloropropanol)
35947-11-6 CAPLUS
Piperasine, 2-methyl-1-(4-methylphenyl)- (CA INDEX NAME)

35947-12-7 CAPLUS Piperazine, 1-(4-methoxyphenyl)-2-methyl- (9CI) (CA INDEX NAME)

<12/04/2007>

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The title derivs. I [R, R] = Me, Q [R2 = H, alkyl, R3 = (un)substituted Ph. (un)substituted diphenylmethyl, X = N, CH; n = 2-10]) were prepared Thus, 7-(4-bromobutyl)theophylline was treated with 1-(0-methoxyphenyl)tiperazine to give 37.6 theophylline II. At 0.1 µg/kg the visodilator II.2 HCl increased the arterial blood flow. I also had central nervous system, antihistaminic, analgesic, antihypertensive, and antiaathmatic activity (no data). 81995-72-74 81995-73-75 P 81995-74-6P 81995-74-6P 81995-77-9P 81996-79-17-9P 81996-79-17-9P 81996-79-17-9P 81996-79-17-9P 81996-79-17-9P 81996-79-17-9P 81996-79-17-9P 81996-79-17-9P 81996-80-7P 81996-7P 81996-7P 81996-80-7P 81996-7P 81996-80-7P 81996-7P 81996-7P 81996-80-7P 81996-7P 81996-7P 81996-7P 81996-7P 81996-80-7P 81996-7P 81996-80-7P 81996-80-7P 81996-80-7P 81996-7P 81996-80-7P 81996-7P 81996-80-7P 81996-80-7P 81996-80-7

81995-73-5 CAPLUS 1H-Purine-2.6-dione, 3,7-dihydro-3,7-dimethyl-1-[4-(3-methyl-4-phenyl-1; piperazinyl)butyl)- (9CI) (CA INDEX NAME)

81995-74-6 CAPLUS 1M-Purine-2,6-dione, 3,7-dihydro-3,7-dimethyl-1-[5-(3-methyl-4-phenyl-1-piperaxinyl)penyll (9CI) (CA INDEX NAME)

Erich Leese

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CAPLUS COPYRIGHT 2007 ACS on STN 1982:438769 CAPLUS 97:39759 Derivatives of theophylline and theobromine Eisai Co., Ltd., Japan Belg., 59 pp. CODEN: BEXXAL Patent French L9 ANSWER 79 OF 134
ACCESSION NUMBER:
DOCUMENT NUMBER:
TITLE:
PATENT ASSIGNEE(S):

SOURCE: DOCUMENT TYPE:

LANGUAGE: FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:	•			•
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
				•••••
BE 890222	A1	19820104	BE 1981-59339	19810904 <
JP 57046983	A	19820317	JP 1980-121712	19800904 <
JP 57046984	A	19820317	JP 1980-121713	19800904 <
JP 63060756	В	19881125		
US 4426383	A	19840117	US 1981-298227	19810831 <
NL 8104073	A	19820401	NL 1981-4073	19810902 <
SE 8105240	A	19820305	SB 1981-5240	19810903 <
SB 456910	В	19881114		
SE 456910	C	19890309		
GB 2083470	Α.	19820324	GB 1981-26653	19810903 <
GB 2083470	В	19840912		
DE 3134929	A1	19820609	DE 1981-3134929	19810903 <
CA 1172632	Al	19840814	CA 1981-385142	19810903 <
CH 651042	AS	19850830	CH 1981-5675	19810903 <
PR 2489331	A1	19820305	PR 1981-16855	19810904 <
FR 2489331	Bl	19841130		
US 4564617	A	19860114	US 1983-484044	19830411 <
· SE 8704599	A	19871120	SB 1987-4599	19871120 <
SE 457083	В	19881128		
SE 457083	С	19890323		
PRIORITY APPLN, INFO.:			JP 1980-121712	A 19800904
			JP 1980-121713	A 19800904
			US 1981-298227	A3 19810831
OTHER SOURCE(S):	CASREA	CT 97:38769;	MARPAT 97:38769	

<12/04/2007>

OTHER SOURCE(S):

Erich Leese

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81995-75-7 CAPLUS ||H-Purine-2,6-dione, 3,7-dihydro-3,7-dimethyl-1-[6-(3-methyl-4-phenyl-1-|pherazinyl)hexyll- (9C1) (CA INDEX NAME)

8195-76-8 CAPLUS
III-Purine-2,6-dione, 3,7-dihydro-1-[2-[4-(4-methoxyphenyl)-3-methyl-1-piperazinyl)ethyl]-3,7-dimethyl- (SCI) (CA INDEX NAME)

81995-77-9 CAPLUS
1H-Purine-2.8-dione, 3,7-dihydro-1-(3-[4-(4-methoxyphenyl)-3-methyl-1-piperainyl)propyl)-3,7-dimethyl- (9CI) (CA INDEX NAME)

81995-78-0 CAPLUS
1H-Purine-2,6-dione, 3,7-dihydro-1-(4-(4-methoxyphenyl)-3-methyl-1-piperaxinyl)butyl-3,7-dimethyl- (9C1) (CA INDEX NAME)

81996-76-1 CAPUS 1H-Purine-2,6-dione, 3,7-dihydro-1,3-dimethyl-7-[2-(3-methyl-4-phenyl-1-piperatinyl)ethyll- (9CI) (CA INDEX NAME)

81996-77-2 CAPLUS 1H-Purine-2,6-dioné, 3,7-dihydro-1,3-dimethyl-7-[4-(3-methyl-4-phenyl-1-piperazinyl)butyl)- (9CI) (CA INDEX NAME)

81996-78-3 CAPLUS |H-Purine-2,6-dione, 3,7-dihydro-1,3-dimethyl-7-(5-(3-methyl-4-phenyl-1-piperazinyl)pentyl]- (9CI) (CA INDEX NAME)

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81997-11-7 CAPLUS
1H-Purine-2,6-dione, 3,7-dihydro-3,7-dimethyl-1-{2-(3-methyl-4-phenyl-3-piperaxinyllethyll- (9CI) (CA INDEX NAME)

75348-33-3
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with (haloalkyl)theophylline)
75348-33-3 CAPLMS
Piperazine, 1-(3-chlorophenyl)-2-methyl- (9CI) (CA INDEX NAME)

2946-76-1 35947-12-7
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with (haloalky))theophylline and (bromoalkyl)theobromine)
2946-76-1 CAPLUS
(Piperazine, 2-methyl-1-phenyl- (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME)

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81996-79-4 CAPLUS
1H-Purine-2,6-dione, 3,7-dihydro-7-|2-[4-(4-methoxyphenyl)-3-methyl-1-piperaxinyliechyl)-1,3-dimethyl- (SCI) (CA INDEX NAME)

81996-80-7 CAPLUS
1H-Purine-2,6-dione, 3,7-dihydro-7-{5-{4-(4-methoxyphenyl)-3-methyl-1-piperazinyl]pentyl]-1,3-dimethyl- (9CI) (CA INDEX NAME)

81996-84-1 CAPLUS
1H-Purine-2.6-dione, 7-[7-[4-(3-chloropheny1)-3-methyl-1-piperazinyl]heptyl]-3,7-dihydro-1,3-dimethyl-, monohydrochloride (9CI) (CA INDEX NAME)

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35947-12-7 CAPLUS Piperazine, 1-(4-methoxyphenyl)-2-methyl- (9CI) (CA INDEX NAME)

L9 ANSWER 80 OF 134
ACCESSION NUMBER:
DOCUMENT NUMBER:
TITLE:
PATENT ASSIGNEE(S):

CAPLUS COPYRIGHT 2007 ACS on STN 1981:491203 CAPLUS 95:91203 Central nervous system depressants Otsuka Pharmaceutical Co., Ltd., Japan Jpn. Kokai Tokkyo Koho, 46 pp. CODEN: JKXXAP SOURCE

Patent

DOCUMENT TYPE: LANGUAGE: PAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO.

JP 56046812

JP 02012204

PRIORITY APPLN, INPO.: KIND A B DATE 19810428 19900319 APPLICATION NO. JP 1979-124878 JP 1979-124878 A 19790927

<12/04/2007>

5-[2-Hydroxy-3-(4-phenylpiperazinyl)propoxy]-3,4-dihydrocarbostyril-HCl
(I) [72566-28-0] and its analogs are central nervous system depressants.

Thus, I and its analogs increased the anesthetic effect of halothane in mice. I was synthesized by treating 5-(2.3-epoxypropoxy)-3,4-dihydrocarbostyrii [51781-14-7] with 4-phenylpiperazine [92-54-6]. Similarly, apprx.100 analogs were synthesized. 55117-80-1 Rt. BIOL (Biological study) (condensation of. with (chloropropoxy)dihydrocarbostyril) 55117-80-1 CAPLUS Piperazine, 1-(4-chlorophenyl)-2-methyl- (9CI) (CA INDÉX NAME)

76808-65-6P RL: SPN (synthetic preparation); PREP (Preparation) (preparation of) 76808-65-6 CAPLUS 2(1H)-Ouinolinone, 7-13-[4-(4-chlorophenyl)-1-methyl 76808-65-0 CAPUUS 2(1H)-Quinolinone, 7-[3-(4-(4-chlorophenyl)-3-methyl-1-piperazinyl|propoxy|-3,4-dihydro-, dihydrochloride (9CI) (CA INDEX NAME)

●2 HC1

L9 ANSMER 81 OF 134 CAPLUS COPYRIGHT 2007 ACS ON STN
ACCESSION NUMBER: 1981:425127 CAPLUS
DOCUMENT NUMBER: 95:25127
Carbostyril derivatives
OURCE: Otsuka Pharmaceutical Co., Ltd., Japan
SOURCE: JEXXXAP

Patent

DOCUMENT TYPE: LANGUAGE: PAMILY ACC. NUM. COUNT: PATENT INFORMATION: Japanese 1

PATENT NO. DATE APPLICATION NO. DATE

<12/04/2007>

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L9 ANSWER 83 OF 134 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1981:192375 CAPLUS
OCCUMENT NUMBER: 94:192275
TITLE: 4-Aryl-5-piperazinoalkyl-1,3-dioxol-2-ones, and compositions
INVENTOR(8): Cascio, Giuseppe; Fregnan, Giancarlo, Manghisi, Elso;
PATENT ASSIONEE(8): Iseluce Luso Farmaco d'Italia SpA, Italy

PATENT ASSIGNEE(S): SOURCE:

U.S., 6 pp. CODEN: USXXAM Patent English 2

DOCUMENT TYPE:

LANGUAGE: PAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATERI INFORMATION.				
PATENT NO.	KIND	DA'TE	APPLICATION NO.	DATE
US 4235904	A	19801125	US 1979-16135	19790301 <
AU 7944404	A	19790906	AU 1979-44404	19790220 <
AU 518565	B2	19811008		
CH 639970	A5	19831215	ĊН 1979-1825	19790223 <
FR 2418796	A1	19790928	FR 1979-4928	19790227 <
FR 2418796	Bl	19810724		
ZA 7900922	A	19800227	ZA 1979-922	19790227 <
CA 1158242	Al	19831206	CA 1979-322408	19790227 <
NL 7901583	A	19790905	NL 1979-1583	1979022B <
NL 177404	В	19850416		
NL 177404	c	19850916		
. DE 2908148	A1	19790906	DE 1979-2908148	19790302 <
DE 2908148	C2	19860807		
ES 478696	A1	19800816	ES 1979-478696	19790302 <
JP 54130569	A	19791009	JP 1979-25004	19790303 <
JP 62005155	В	19870203		
GB 2017684	A	19791010	GB 1979-7651	19790305 <
GB 2017684	В	19820818		
PRIORITY APPLN. INFO.:			IT 1978-20841	A 19780303
			IT 1979-48004	A 19790214
OTHER SOURCE(S):	MARPAT	94:192375		

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JP 55162774

A 19801218

JP 1979-71434

A 19790606 <-PRIORITY APPLM, INFO.:

CASREACT 95;25127

IF 07 diagram(s), see printed CA Issue.

AB Porty-seven carbostyrlis I [R = H, O [R6 = H, OH, alkyl, etc., R4 = H, alkyl, R5 = cycloalkyl, alkanoyl, etc., p, m = 0.6; r = 2-3); R3 = halo, n = 0.2; R1 = H, alkyl, alkenyl, etc., p, m = 0.6; r = 2-3); R3 = halo, n = 0.2; R1 = H, alkyl, alkenyl, etc., R2 = H, alkyl, Ph, Q] were prepared and had anti-histaminic and central nervous system depressant activities when tested with guines pig ileum and in mice, resp. Thus, refluxing 4-methyl-7-(2)-peoxypropoxy) carbostyri1 with 4-phenylpiperazine in BtON 3 h and treating with Hcl/EtOH gave 63% 4-methyl-7-[2-hydroxy-(4-phenylpiperazine)] propoxy) carbostyri1-HC1.

T7 76808-65-6P

RL: SPM (Synthetic preparation), PREP (Preparation) (preparation of)
R7 76808-65-6 CAPLUS

CN 2(11) - Ouinolinone. 7-[3-(4-(4-chlorophenyl)-3-methyl-1-piperazinyl) propoxyl-3,4-dihydro-, dihydrochloride (9CI) (CA INDEX NAME)

●2 HC1

L9 ANSMER 82 OF 134 CAPLUS COPYRIGHT 2007 ACS ON 6TN
ACCESSION NUMBER: 1981:425121 CAPLUS
DOCUMENT NUMBER: 95:25121
Antihistaminic carbostyril derivatives
OURCE; Otsuka Pharmaceutical Co., Ltd., Japan
SOURCE; CODEN; JKXXAF

DOCUMENT TYPE.

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION: Patent Japanese

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 55124766	A	19800926	JP 1979-32486	19790320 <
JP 63031445	В	19880623		
PRIORITY APPLN. INFO.:		•	JP 1979-32486 A	19790320

RITY APPLN. INFO::

R SOURCE(6):

CASREACT 95:25:21

Por diagram(s), see printed CA Issue.

Carbostyrils I (R = H, O (R) = H, OH, alkyl, etc., R4 = H, alkyl, R5 = cycloalkyl, alkanoyl, etc., l.m = 0-6; r = 2, 31; X = halo, n = 0-2, R1 = H, alkyl, etc., R2 = H, alkyl, Ph, Ol (111 compds.) were prepared and were tested as antihistaminics in guinea pig. ileum. Thus, reaction of 4.4 g 5-(2.3-egoxyrpopxyy)-3,4-dihydrocarbostyril with 3.4 g 1-phenylpiperazine in McOH 3 h at 50-60* gave, after treating with HCl, 6.5 g 5-(2-hydroxy-3-(4-phenylpiperazinyl))propoxyl-3,4-dihydrocarbostyril-HCl, 76808-65-6P

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GI

Piperazinoalkyldioxolones I (R = optionally substituted Ph, naphthyl, R1 = optionally substituted alkyl, Ph, pyridyl, pyrimidinyl, n = 1-3) were prepared Thus II was treated with COC12 to give I (R = 4-PC6H4, R1 = 2-MeC6SH4, n = 2) which had an antitulore BDSO of 30 mg/kg orally in rats. I also have anticholesteremic activity. 71921-05-2P 71923-39-2P RL: SPN (Synthetic preparation), PREP (Preparation) (preparation of). 71923-05-2 CAPLUS 1.3-Dioxol-2-one, 4-[2-[4-(4-chlorophenyl)-3-methyl-1-piperazinyl]ethyl)-5-(4-fluorophenyl)-, dihydrochloride (9CI) (CA INDEX NAME)

71923-39-2 CAPLUS
1,3-Dioxal-2-one, 4-{2-{4-(4-chlorophenyl)-3-methyl-1-piperaxinyl}ethyl}-5(4-fluorophenyl)- (9CI) (CA INDEX NAME)

<12/04/2007>

L9 ANSWER 84 OF 134 CAPLUS COPYRIGHT 2007 ACS ON STN
ACCESSION NUMBER: 1590:586412 CAPLUS
DOCUMENT NUMBER: 93:186412
Carbostyril compounds
NARAgawa, Kazuyuki; Tominaga, Michiaki; Tone, Hitoshi
Otsuka Pharmaceutical Co., Ltd., Japan
U.S., 15 pp. Cont.-in-part of U.S. Ser. No. 778,537,
abandoned.
CODEN: USXXAM

Patent English DOCUMENT TYPE:

LANGUAGE: PAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO.

US 4210753
JP 52111979
JP 59019541
JP 52136177
JP 60009501
ZA 7701461
BE 652556
PRIORITY APPLN, INFO.: DATE APPLICATION NO. A A B A B A B 19800701 19770924 19840507 19771114 19850311 19780830 19770718 US 1978-965470 JP 1976-28957 19781130 <--19760317 <--19760507 <--JP 1976-52498 ZA 1977-1461 BE 1977-175856 JP 1976-28957 JP 1976-52498 US 1977-778537 19770310 <--19770317 <--A 19760317 A 19760507 A2 19770317

OCH2CH (OH) CH2NR2R3

OCH2CH (OH) CH2NR2R3

8-Olycidyloxycarbostyrils reacted with amines to give 8-(3-amino-2-hydroxypropoxy)carbostyrils I and II (R = H, R1 = H, phenylalkyl, diphenylalkyl, alkoxyalkyl, hydroxyalkyl, alkanoyl, alkynyl, R2 = H and R3 = pyrrolidinoalkyl, piperarinoatkyl, morpholinoalkyl, or NR2R3 form a piperidino, morpholine, pyrrolidino, or piperarino group), which showed \(\beta\)-adrenergic blocking activity. A mixture of 8-propargyloxy-5-

<12/04/2007>

II

2(1H)-Quinolinone, 5-13-[4-(4-chlorophenyl)-3-methyl-1-piperazinyl]-2-hydroxypropoxyl-8-hydroxy-, monohydrochloride (9CI) (CA INDEX NAME)

PAGE 1-A

PAGE 2-A

65034-66-4 CAPLUS
2(1H)-Quinolinone, 5-[3-[4-(4-chloropheny])-3-methyl-1-piperazinyl]-2hydroxypropoxyl-3,4-dihydro-8-hydroxy-, monohydrochloride (9CI) (CA INDEX NAME)

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glycidyloxy-3,4-dihydrocarbostyril, pyrrolidine, and MeOH was kept 12 h at 10-15* to give 11 (R = H, R1 = propargyl, NR2R3 = pyrrolidine).
65008-48-2P
RL: SPN (Synthetic preparation), PREP (Preparation)
(preparation and fh-adrenergic blocking activity of).
65008-48-2 CAPLUS
2(IH)-Quinolinone, 5-{3-(4-(4-chlorophenyl)-3-methyl-1-piperazinyl]-2-hydroxypropoxyl-3,4-dihydro-8-(phenylmethoxy)-, monohydrochloride (9CI)
(CA INDEX NAME)

PAGE 1-A

PAGE 2-A

. 55008-50-6P 65034-66-4P RL: SPN (Synthetic preparation), PREP (Preparation) (preparation of) 65008-50-6 CAPLUS

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PAGE 2-A

55117-80-1
RL; RCT (Reactant); RACT (Reactant or reagent)
(ring cleavage of (glycidyloxy)corbostyrils by)
55117-80-1 CAPLUS
Piperaxine, 1-(4-chlorophenyl)-2-methyl- (9CI) (CA INDEX NAME)

<12/04/2007>

L9 ANSMER 85 OF 134 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER:
DOCUMENT NUMBER:
93:14244
Synthesis and anxiolytic activity of a series of
pyrazinofil,2-all,14;benzodiazepine derivatives
Smith, R. G., Lucas, R. A., Wasley, J. M. F.
Pharm. Div., Ciba-Geigy Corp., Summit, NJ, 07801, USA
JOURNEJ DOCUMENT TYPE:
LANGUAGE:
CASPRATY SOURCE;
DOCUMENT TYPE:
LANGUAGE:
CASPRATY 91:142844

CASREACT 93:142844

DOCUMENT TYPE: LANGUAGE: OTHER SOURCE(5): GI

The synthesis and biol. evaluation of 5 title compds. I (R = Me, Ph, CH2Ph, and 2- or 4-ClC6H4-) and 2 dihydro derivs. for anxiolytic and antidepressant activities are described. I; R = CeH4Cl-2 [74162-29-1] had significant levels of anxiolytic activity but low antidepressant activity. 74162-26-8P.

Ris (RT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or rasgent) (Preparation and acylation of) 74162-28-8 CAPLUS 2-Piperazion and acylation of) RACT (Reactant); RACT

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74162-22-4 CAPLUS
Benzamide, 4-chloro-N-[[1-(4-chlorophenyl)-4-methyl-2-piperazinyl]methyl)[9C1] (CA IMDEX NAME)

74162-23-5 CAPLUS
Benzeneacetamide, N-[[]-(4-chlorophenyl)-4-methyl-2-piperazinyl]methyl](9C1) (CA INDEX NAME)

74162-24-6 CAPLUS
Acctamide. N-[11-(4-chlorophenyl)-4-methyl-2-piperazinyl)methyl]- (9CI)
(CA INDEX NAME)

10/513699

IT

74162-20-2P 74162-21-3P 74162-22-4P
74162-23-5P 74162-24-6P
RL: RCT (Reactant): BPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (preparation and cyclization of)
74162-20-2 CAPLUS
Benzamide, N-[[1-(4-chlorophenyl)-4-methyl-2-piperazinyl]methyl]- (9CI) (CA INDEX NAME)

74162-21-3 CAPLUS

Renzamide, 2-chloro-N-[[1-(4-chlorophenyl)-4-methyl-2-piperazinyl]methyl](9C1) (CA INDEX NAME)

<12/04/2007>

Brich Leese

L9 ANSMER 86 OF 134 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER:
DOCUMENT NUMBER:
1717LE:
1717LE

FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

TENT INFORMATION:				
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2912105	A1	19791011	DE 1979-2912105	19790327 <
DE 2912105	C2	19850829		
DE 2912105	C3	19900215		
JP 54130587	A	19791009	JP 1978-37783	19780330 <
JP 62023750	B	19870525		
CA 1117110	A1	19820126	CA 1979-324227	19790327 <
DE 2953723	C2	19860710	DE 1979-2963723	19790327 <
DE 2953723	C3	19890112		
PI 7901034	A	19791001	PI 1979-1034	19790328 <
PI 70704	В	19860626		
PI 70704	С	19861006		
AU 7945480	A	19791004	AU 1979-45480	19790328 <
AU 515531	B2	19810409		
US 4734416	A	19880329	US 1979-24602	19790328 <
BE 875174	A1	19791001	BE 1979-194281 .	19790329 <
SE 7902794	A	19791001	SE 1979-2794	19790329 <
SE 434945	B	19840827	•	
SE 434945 .	С	19841220		
NO 7901049	A	19791002	NO 1979-1049	19790329 <
NO 151321	В	19841210		
NO 151321	c	19850320		
DK 7901286	A	19791026	DK 1979-1286	19790329 <
DK 158225	B	19900416		
DK 158225	С	19900917		
FR 2421174	A1	19791026	FR 1979-7863	19790329 <
FR 2421174	91	19821119		
CH 641455	A5	19840229	CH 1979-2953	19790329 <
AT 7902351	A	19840415	AT 1979-2351	19790329 <
AT 376432	13	19841126	•	
SU 1140687	A3	19850215	8U 1979-2745704	19790329 <
NL 7902514	A	19791002	NL 1979-2514	19790330 <
NL 183189	В	19880316		
NL 183189	C	19880816		
GB 2017701	A	19791010	GB 1979-11155	19790330 <
GB 2017701	8	19830316		
ZA 7901516	A	19800430	ZA 1979-1516	19790330 <
ES 479134	A1	19800616	ES 1979-479134	19790330 <
ES 486990	A1	19801001	ES 1979-486990	19791217 <
ES 486991	A1	19801001	ES 1979-486991	19791217 <
ES 486992	A1	19801001	ES 1979-486992	19791217 <
5U 1232144	A3	19860515	SU 1981-3328599	19810908 <
CH 641350	A5	19840229	CH 1982-1900	19820326 <

AT 8303915	A	19840415	AT 1983-3915		19831107	<
AT 376433	В	19841126				
AT 8303916	A	19840415	AT 1983-3916		19831107	c
AT 376434	В	19841126				
AT 8303917	A	19840415	AT 1983-3917		19831107	<
AT 376435	В	19841126				
JP 62149664	A	19870703	JP 1986-29566	3	19861210	<
JP 63005387	В	19880203				
US 4824840	A	19890425	US 1987-25193		19870312	<
PRIORITY APPLN, INFO,:			JP 1978-37783	A	19780330	
			US 1979-24602	A3	19790328	
			AT 1979-2351	A	19790329	
			CU 1070-2953		19790329	

OTHER SOURCE(S):

CASREACT 92:76316

Apparatus 160 piperazinoalkoxy- (especially-propoxy)-carbostyrils and/or their 3,4-dihydro derivs, were prepared and tested as antihistaminics, anesthesic-and sedative-enhancers, and analgesics; reference compds, were, e.g., haloperidol, diazepam, or pentabarbitol. Any or all of the piperazine, alkoxy, or carbostyril moleties could be substituted. Thus, the compds, were prepared by treatment of the appropriate hydroxycarbostyril with, a dihalo compound (e.g., BrCN2)3Cl) or an epoxide, then cyclized vis conversion into a bie shaloethylamine or treated with a piperazine. Compds, prepared included I-IV.
55117-80-1
RL: RCT (Reactant), RACT (Reactant or reagent)
(reaction of, with carbostyril derivs.)
55117-80-1 CAPLUS
Plperazine, 1-(4-chlorophenyl)-2-methyl- (9Cl) (CA INDEX NAME)

<12/04/2007>

Erich Leese

10/513699

Dioxolones I (R = optionally substituted ary); NRIR2 = secondary amino; X= 0, S; X1 = C1-3 alkylene) were prepared Thus, II was treated with COC12 to give I (R = 4-F6H4, NRIR2 = 4-(2-methoxyphenyl)piperazino; X = 0, X1 = CH2CH2) which had an antituler EDD3 of J0 mg/kg orally in rats. I also had anticholestremic activity. 71921-05-2 PRL; SPN (Synthetic preparation), PREP (Preparation) (preparation and anticholesteremic and anti-ulcer activity of) 71923-05-2 CAPLUS 1,3-Dloxol-2-one, 4-[2-[4-(4-chlorophenyl)-3-methyl-1-piperazinyl]ethyl]-5-(4-fluorophenyl)-, dihydrochloride (9CI) (CA INDEX NAME) 'AB ΙT

●2 HCl

71923-39-2P
RL: SPN (Synthetic preparation), PREP (Preparation)
(preparation of)
71923-39-2 CAPLUS
1,3-Dioxol-2-one, 4-(2-[4-(4-chlorophenyl)-3-methyl-1-piperazinyl]ethyl]-5-(4-fluorophenyl)- (9Cl) (CA INDEX NAME)

10/513699

ANSWER 87 OF 134 CAPLUS COPYRIGHT 2007 ACS on STN
SSION NUMBER: 1979:593289 CAPLUS
S: 91:193289
S: 4-Aryl-5-aminoalkyl-1,3-dioxol-2-ones and derivatives
WT ASSIGNEE(5): Istituto Luso Farmaco d'Italia S.r.l., Italy
CE: Belg., 17 pp.

L9 ANSWER 87 OF 1
ACCESSION NUMBER:
DOCUMENT NUMBER:
TITLE:
PATENT ASSIGNEE(S):
SOURCE:

Belg., 17 pp. CODEN: BEXXAL Patent Dutch 2

DOCUMENT TYPE: LANGUAGE;

PAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
BE 874561	A2	19790702	BE 1979-57638	19790302 <
AU 7944404	A	19790906	AU 1979-44404	19790220 <
AU 518565	B2	19811008	•	
CH 639970 ·	A5	19831215	CH 1979-1825	19790223 <
FR 2418796	A1	19790928	FR 1979-4928	19790227 <
PR 2418796	B1	19810724		
ZA 7900922	A	19800227	ZA 1979-922	19790227 <
CA 1158242	A1	19831206	CA 1979-322408	19790227 <
NL 7901583	A	19790905	NL 1979-1583	19790228 <
NL 177404	В	19850416		
NL 177404	Ċ	19850916		
DE 2908148	A1	19790906	DE 1979-2908148	19790302 <
DR 2908148	C2	19860807		
ES 478696	A1	19800816	RS 1979-478696	19790302 <
JP 54130569	A	19791009	JP 1979-25004	19790303 <
JP 62005155	В	19870203		
GB 2017684	Ā	19791010	GB 1979-7651	19790305 <
00 0017604		10000010		

19820818

PRIORITY APPLN. INFO.:

IT 1978-20841 IT 1979-48004 19780303 19790214

<12/04/2007>

Erich Leese

10/513699

INVENTOR (S)

CAPLUS COPYRIGHT 2007 ACS on STN
1979:137696 CAPLUS
90:137696 Carbostyrils
Tominaga, Michiaki, Tone, Hitoshi, Nakagawa, Kazuyuki
Otsuka Pharmaceutical Co., Ltd., Japan
Jpn. Kokai Tokkyo Koho, 6 pp.
CODEN. JKXXAF
PATENE
J

PATENT ASSIGNEE(S):

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE 19770304 <--19780922 JP 1977-24042

JP 53108989 JP 59048830 PRIORITY APPLN, 1NPO.: JP 1977-24042 A 19770304

Ten carbostyrils I.RCl (R = H, PhCH2; Rl = H, p-MeO or Cl, m-Cl; R2 = H, Me), having β-adrenaline inhibiting activity (no data), were prepared by reaction of II with III. I.RCl (R = H) were also prepared by catalytic reduction of I.RCl (R = PhCH2, Over 10% Pd-C. Thus, 2.0 g II (R = PhCH2, 3,4-dihydro) and 2.0 g III (R1 = p-MeO, R2 = H) were stirred in MeOH for 4 hat 40-50 to give 1.2 g I.RCl (R = PhCH2, R1 = p-MeO, R2 = H), 3,4-dihydro). 65008-48-2P 65008-50-6P 65034-66-4P RL: SPN (Synthetic preparation) PREP (Preparation) (Synthetic preparation) (PREP (Preparation) (R1 = PhCH2, R1 = Ph

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Erich Leese

<12/04/2007>

PAGE 2-A

PAGE 1-A

65008-50-6 CAPLUS
2(1H)-Quinolinong, 5-[3-[4-(4-chlorophenyl)-3-methyl-1-piperazinyl)-2-hydroxypropoxyl-8-hydroxy-, monohydrochloride (9C1) (CA INDEX NAME)

Ph-CH2-0

<12/04/2007> Erich Leese

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PAGE 1-A

● HC1

L9 ANSMER 89 OF 114 CAPLUS COPYRIGHT 2007 ACS ON STN
ACCESSION NUMBER:
DOCUMENT NUMBER:
33-Aminoacrylophenones and some related compounds: a new class of anti-inflammatory agents
GUPEA, R. C., Practap, Ram, Chatterjee, S. K.; Srimal,
R. C.; Anand, Nitya
Cent, Drug Res. Inst., Lucknow, India
Indian Journal of Chemistry, Section B: Organic
Chemistry Including Medicinal Chemistry (1977), 158(7), 641-4
CODEN: IJSBDB; 15SN: 0376-4699
JOURNAIL English

<12/04/2007>

Erich Leese

PAGE: 1-A

● HC1

65034-66-4 CAPLUS
2(1H1-Quinolinone, 5-[3-[4-(4-chlorophenyl)-3-methyl-1-piperazinyl]-2hydroxypropoxy)-3,4-dihydro-8-hydroxy-, monohydrochloride (9CI) (CA INDEX
NAME)

<12/04/2007> Erich Leese

10/513699 OTHER SOURCE(S): CASREACT 88:37465

Sixteen 3-aminoacrylophenones I (R = 4-P, 2.4-Me3, R1 = H, Me, Et, R2 = piperidino, 4-phenyl-1-piperazinyl, 1-pyrrolidinyl, etc.) (II) were prepared by amination of I (R2 = 0H). Similarly 18 2-aminomothylene-1-indanones III (R3 = 4-Cl, 4-, 5-, 6-F) R4 = 4-phenyl-1-piperazinyl, piperidino, etc.) were prepared Most of II and III have antiinflammatory activity. 65201-34-5 (85201-34-5) (R5201-34-5) (R5201-34-

55117-80-1
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with propiophenone)
55117-80-1 CAPLUS
Piperazine, 1-(4-chlorophenyl)-2-methyl- (9CI) (CA INDEX NAME)

L9 ANSHER 90 OF 134 CAPLUS COPYRIGHT 2007 ACS ON STN ACCESSION NUMBER: 1978:22663 CAPLUS DOCUMENT NUMBER: 89:22663

<12/04/2007> Erich Leese

10/513699

Carbostyril derivatives
Tominsga, Michiaki, Tone, Hitochi, Nakagawa, Kazuyuki
Otsuka Pharmaceutical Co., Ltd., Japan
Ger. Offen., 92 pp.
CODEN: GWXXBX
Patent
German
5 TITLE: INVENTOR(S): PATENT ASSIGNEE(S): SOURCE:

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE	
	DE 2711719	A1	19770922	DE 1977-2711719	19770317 <-	
	DE 2711719	C2	19850214			
	JP 52113979	A	19770924	JP 1976-28957	19760317 <-	
	JP 59019541	В	19840507			
	JP 52136177	A	19771114	JP 1976-52498	19760507 <-	
	JP 60009501	В	19850311			
	ZA 7701461	A	19780830	ZA 1977-1461	19770310 <-	
	CH 619453	AS	19800930	CH 1977-3087	19770311 <-	
	FI 7700827	A	19770918	FI 1977-827	19770315 <-	
	FI 63224	В	19830131			
	FI 63224	c	19830510			
	DK 7701156	A	19770918	DK 1977-1156	19770316 <-	
	DK 154970	B	19890116			
	DK 154970	c	19890612			
	SE 7703000		19770918	SE 1977-3000	19770316 <-	
	SE 443140	В	19860217			
	SE 443140		19860529			
	NO 7700940 ·		19770920	NO 1977-940	19770316 <-	
	NO 149388		19840102			
	NO 14938B		19840411			
	AU 7723299		19780928	AU 1977-23299	19770316 <-	
	AU 513950	B2	19810115			
	BE 852556	A1	19770718	BE 1977-175856	19770317 <-	
	NL 7702896	A	19770920	NL 1977-2896	19770317 <-	
	NL 179816		19860616			
	NL 179816	C	19861117			
	FR 2344538	A1 .	19771014	PR 1977-8041	19770317 <-	
	FR 2344538	B1	19800718			
	CA 1081232	A1	19800708	CA 1977-274453	19770317 <-	
	AT 7701815	A	19810115	AT 1977-1815	19770317 <-	٠.
	AT 363474	В	19810810			
PR	IORITY APPLIN. INFO.:				A 19760317	
				JP 1976-52498	A 19760507	

MARPAT 88:22663

OTHER SOURCE(S);

<12/04/2007>

Erich Leese

10/513699

65008-50-6 CAPLUS
2(1H1-Quinolinone, 5-[3-[4-(4-chlorophenyl)-3-methyl-1-piperazinyl}-2-hydroxypropoxyl-8-hydroxy-, monohydrochloride (SCI) {CA INDEX NAME}

PAGE 1-A

PAGE 2-A

Carhostyril derivs. (.apprx.130 compds.), including I (R = H, CH2CH2OMe, allyl, propargyl, CH2AC, Bu, CH2CH2OM, CH2CO2H, CH2CONN2, Me, CH2Ph, CH2CG6H4AC-4, cyclohexylcarbonyl, CH2CO2ET, R1 = H, R2 = CH2CH2CEGH3 (DMe) 2-3, 4, allyl, CMe3, CHPR2, morpholinopropyl, CMe2CH2Ph, CH2CHPh2, CHME2, NR1R2 = 3-methyl-4-phenylpiparazino) were prepared Thus, II (R = S = H) was treated with HC.tpibond.CCH2BF. II (R = CH2C.tpibond.CH, R3 = H) treated with Hc.tpibond.CCH2BF. II (R = CH2C.tpibond.CH, R1 = H, R2 = CMe3), which at 300 mg/kg i.v. gave 100% inhibition of isopremalin-induced increase in heart rate in dogs.

KL:SPN (Synthetic preparation), PREP (Preparation)
(preparation of)
SSOB-48-2 CAPLUS
2(iH)-Quinolinone. 5-[3-[4-(4-chlorophenyl)-3-methyl-1-piperazinyl]-2-hydroxypropxyl-3,4-dihydro-8-(phenylmethoxyl-, monohydrochloride (9CI) (CA INDEX NAME)

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65034-66-4 CAPLUSe 2(1H)-Ouinolinone, 5-[3-[4-(4-chlorophenyl)-3-methyl-1-piperarinyl]-2-hydroxypropoxyl-3,4-dihydro-8-hydroxy-, monohydrochloride (9CI) (CA INDEX NAME)

PAGE 1-A

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65023-17-8
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(Uses)
(sympatholytic activity of)
(sympatholytic activity of)
(so2):17-8 CABPE,
(2(H)-Quinolinone, 3,4-dihydro-5-[2-hydroxy-3-(3-methyl-4-phenyl-1piperazinyl)propoxy)-8-(phenylmethoxy)-, monohydrochloride (9CI) (CA
INDEX NAME)

Ph- CH2-

L9 ANSWER 91 OF 134 CAPLUS COPYRIGHT 2007 ACS ON STN
ACCESSION NUMBER: 1976:592771 CAPLUS
DOCUMENT NUMBER: 8:192771
TITLE: 8-Aminotheophylline derivatives
Owelet. Jean R.
Laboratoire le Brun S. A., Fr.
SOURCE: Ger. Offen., 15 pp.

1976:592771 CAPLUS 85:192771 8-Aminotheophylline derivatives Quelet, Jean R. Laboratoire le Brun S. A., Pr. Ger. Offen. 15 pp. CODEN: GWAXBX Patent German

DOCUMENT TYPE:

<12/04/2007>

Erich Leese

10/513699

60987-62-4 CAPLUS
1H-Imidazo[2,1-f] purine-2,4(3H,6H)-dione, 8-[2-[4-(4-chlorophenyl)-3-methyl-1-piperazinyl]ethyl]-7,8-dihydro-1,3-dimethyl- (9CI) (CA INDEX NAME)

<12/04/2007>

60987-63-5 CAPLUS |H-Imidazo[2,1:f]purine-2,4(3H,6H)-dione, 8-(2-[4-(3-chlorophenyl)-3-ethyl-|-piperazinyl]othyl]-7,8-dihydro-1,3-dimethyl- (9CT) (CA INDEX NAME)

10/513699

PAMILY ACC. NUM. COUNT: 1 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2609397 .	A1	19760923	DE 1976-2609397	19760306 <
FR 2303551	A1	19761008	PR 1975-7675	19750312 <
ZA 7601234	A	19770223	ZA 1976-1234	19760302 <
GB 1536492	A	19781220	GB 1976-8487	19760303 <
JP 51113898	A	19761007	JP 1976-24723	19760309 <
ES 445944	A1	19770516	ES 1976-445944	19760310 <
BE 839419	A1	19760913	BE 1976-165037	19760311 <
CH 597231	A5	19780331	CH 1976-3060	19760311 <
AU 7611975	A	19770915	AU 1976-11975	19760312 <
AU 501358 ·	B2	19790621		

AU 7611975 A 19770915 AU 1976-11975 19760312 <-AU 701158 B2 19790621

FRIORRITY APPLN. INFO.:

OTHER SOURCE(8):

FOR diagram(s), see printed CA Issue.

AB Purinediones [I: R = H, Me. Et. 3-MeoC6H4; Rln = e.g., H, 3-Cl, 3-Br, 3-F, 3.4-Cl2, 3.4-Me2; n = 2, 3, 4; m = 2, 3, 6; (CR2)m = CH2CHMel, with anticussive, annihistaminic, analgosic, inflammation-inhibiting, tranquilizing, and sedative activities, are prepared by reaction of 9-(chloroalkyl)-terrahydropyrinidopurinediones with phenylpiperaxines. The pyrinidopurinediones with phenylpiperaxines. The pyrinidopurinediones with amno alcs. and replacement of the OH with Cl. Thus, reaction of 5.75 g 9-(2-chlorochyl)-6.7,8,9-tetrahydro-1.3-dimethylpyrimidol2,1-flpurine-2,4(lN,18H)-diome with 7.5 g 1-(3-chlorophenyl)piperaxine 2 hr at 180-90* gives 4.7 g I (R = H, R1 = 3-Cl, m = 2, n = 3).

IT 60987-61-3P 60987-62-4P 60987-63-5P

RL BAC (Biological activity or effector, except adverse), BSU (Biological study, unclassified), SPN (Synthetic preparation), BTOL (Biological study), PREF (Preparation) (preparation and pharmacol activity of)

RN 69987-61-3 CAPP-61-3 CAPP-

<12/04/2007>

Brich Leese

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I.9 ANSWER 92 OF 114 CAPLUS COPYRIGHT 2007 ACS ON STN
ACCESSION NUMBER: 1976:17426 CAPLUS
DOCUMENT NUMBER: 84:17426
TITLE: Aminoal kylencindolines
INVENTOR(S): Allen, George R., Jr.; Littell,
American Cyanamid Co., USA
Con., 14 pp.
CODEN: CAXXA4

AATIUS

AMINOAlkyleneindolines
Allen, George R., Jr., Littell, Ruddy
American cyanamid Co., USA
Can., 14 pp.
CODEN: CAXXA4
PALENT
English 1

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

A1 19750805

Erich Leese <12/04/2007> Erich Leese

●3 HC1

40119-10-6
RL: RCT (Reactant), RACT (Reactant or reagent)
(reduction of)
40119-10-6 CAPLUS
5H-1,3-Dioxolo(4,5-r[]indole, 7-[2-[3-methy]-4-(4-methylphenyl)-1piperarinyl]ethyl]- (9CI) (CA INDEX MAME)

L9 ANSMER 93 OP 134 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1975:443207 CAPLUS
OCCUMENT NUMBER: 3:43207
TITLE: 2 (Piperazinylalkyl)isoquinolinediones
INVENTOR(S): Kutter: Eberhard, Austel, Volkhard; Eberlien,
Wolfgang, Heider, Jonchia
SOURCE: COPYRIGHT ACC. NUM: COUNT: 2

DOCUMENT TYPE: Patent
LANGUAGE: Patent
LANGUAGE: Patent
COPYRIGHT ASSOCIATION
SCHOOL COUNT: 2

LANGUAGE: FAMILY ACC, NUM, COUNT: PATENT INFORMATION:

PA"	TENT NO.	KIND	DATE	APF	LICATION NO.	DATE	

DE	2345422	A1	19750320	DE	1973-2345422	19730908	·
DE	2345422	C2	19831222				
AT	7406514	A	19751015	AT	1974-6514	19740808	<
AT	330777	В	19760726				
FI	7402465	A	19750309	FI	1974-2465	19740821	<
FI	52219	В	19770331				
ES	429473	A1	19760901	ES	1974-429473	19740823	٠
· US	3948898	A	19760406	បទ	1974-503072	19740904	<
ຣບ	528035	A3	19760905	SU	1974-2057995	19740904	<
AU	7473023	A	19760311	UA	1974-73023	19740905	<
BE	819651	A1	19750306	BE	1974-148302	19740906	<
SE	7411312	A	19750310	SE	1974-11312	19740906	٠
SE	424863	В	19820816				

<12/04/2007>

Erich Leese

10/513699

2946-76-1 RL: RCT (Reactant); RACT (Reactant or reagent) (reaction of, with isoquinolinediones) 2946-76-1 CAPLUS Piperazine, 2-methyl-1-phenyl- (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME)

L9 ANSWER 94 OF 134 ACCESSION NUMBER: DOCUMENT NUMBER: TITLE:

INVENTOR (S):

CAPLUS COPYRIGHT 2007 ACS on STN
1975:17:1026 CAPLUS
82:17:1026
1,3-Dialkyl-4-aminouracils
Hartleben, York, Goering, Joachim, Tauscher, Manfred,
Rohte, Oskar, Bremmer, Guenter, Firma Johann A.
Wuelfing
Ger. Offen., 25 pp.
'CODEN: GWXXBX
Patent
Octman
: 1

DOCUMENT TYPE: LANGUAGE:

PAMILY ACC. NUM. COUNT:

PATENT INFORMATION:				
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2329399	A1	19750102	DE 1973-2329399	19730608 <-
FI 7401579	A	19741209	FI 1974-1579	19740523 <-
AT 7404300	A	19760115	AT 1974-4300	19740524 <-
AT 332425	В	19760927		
JP 50052077	A	19750509	JP 1974-62447	19740601 <-
SE 7407471	A	19741209	SE 1974-7471	19740606 <-
NL 7407611 · '	A	19741210	NL 1974-7611	19740606 <-
BE 816055	A1	19740930	BE 1974-145190	19740607 <-
PR 2232320	A1	19750103	PR 1974-19693	19740607 <-
HU 168153	В	19760228	HU 1974-WU16	19740607 <-
DD 119233	A5	19760412	DD 1974-179053	19740610 <-
PRIORITY APPLAL INFO .:			DE 1973-2329399 #	19730608
GI For diagram(s), se	e printe	d CA Issue.		

10/513699

SE 424863 NL 7411843 NL 176363 NL 176363 19821125 19750311 19841101 NL 1974-11843 19740906 <--19850401 NO 7403220 NO 7403220 PR 2423979 DK. 7404727 JP 50050381 JP 59006868 DD 115122 HU 167869 EA 7405688 GB 1446791 CH 605779 CH 605778 CC 185660 PL 91712 ES 433959 ES 433958 NO 7403220 19750311 19790910 NO 1974-3220 19740906 <--19790910 19750404 19750505 19750506 19840215 19750912 19751225 19740906 <--19740906 <--19740906 <--DD 1974-180966 HU 1974-70980 ZA 1974-5688 GB 1974-95683 CH 1974-12189 CN 1977-16014 RO 1974-79932 CS 1974-6150 PL 1974-173958 ES 1975-431958 ES 1975-431958 ES 1975-431958 ES 1975-431958 19740906 <-19740906 <-19740906 <-19740906 <-19740906 <-19740906 <-19740906 <-19740906 <-19740906 <-19750120 <-19750120 <-19750620 <-19750620 <-19750620 <-19750620 <-19750620 <-19750620 <--19760818 19760818 19781013 19781015 19781031 19781031 19770331 19761116 19761205 19770130 19760515 SU 545256 AT 7505606 AT 334374 AT 7505607 AT 334375 US 4021558 PRIORITY APPLN. INFO.: AT 1975-5606 19750721 <--19760110 19760515 AT 1975-5607 19750721 <--19760110 19770503 US 1976-651568 DE 1973-2345422 DE 1973-2345423 AT 1974-6514 US 1974-503072 19760122 <--A 19730908 A 19730908 A 19740808 A2 19740904

AT 1974-0512

AT

<12/04/2007>

Erich Leese

About 40 uracis I and II [R - Mc, Me2CH, or Bu, R] - CH2CH2OII,
CH2CH2802C6H4Me-4, or (CH2)3OH, R2 - Mc, Pr, CH2CHMeOH, CH2Ph, (CH2)3NH2,
CO2EL, C6H4COMe-4 or -2, 2-pyridyl, CilPhC6H4C1-4, etc., R3 - H or Mc] were
prepared by reaction of 4-Chlorouracils with amines. I and II had
anticholesteremic, choleretic, and diuretic activity when tested orally in
the rat. LD50 values were obtained in the mouse. Thus.
1,3-dibutyl-4-chlorouracil and H2NCH2CH2OH were refluxed in EtOH to give
974 I (R = Bu, R] = CH2CH2OH).
J5547-12-7 55117-80-1
RL: RCT (Reactant). RACT (Reactant or resgent)
(reaction of, with chlorouracils)
35947-12-7 CAPLUS
Piperazine. 1-(4-methoxyphenyl)-2-methyl- (9C1) (CA INDEX NAME)

55117-80-1 CAPLUS Piperazine, 1-(4-chlorophenyl)-2-methyl- (9CI) (CA INDEX NAME)

ACCESSION NUMBER: DOCUMENT NUMBER: TITLE:

ANSWER 95 OF 134 CAPLUS COPYRIGHT 2007 ACS on STN

1975.170836 CAPLUS

21.70836 SPL Synthesis of new piperazine derivatives. 1-Aikyl(or aroyl)-4-(N-Aikyl(or aroyl)) piperazinyl)-1-butene-3-ones

OR(S):

BADOURCE:

BADOURCE:

Comptes Rendus des Scances de 1-Academie des Sciences, Serie C: Sciences Chimiques (1975), 280(3), 149-51 AUTHOR(S); CORPORATE SOURCE; SOURCE:

<12/04/2007>

CODEN: CHDCAQ; ISSN: 0567-6541

COURN: CHDCAC; ISSN: 0567-6541

LANGUAGE: French
OTHER SOURCE(S): CASRACT 2::170836

GT For diagram(s), see printed CA Issue
AB Piperazines I(R=Me, Ph, 4-FC6H4, 4-MeOC3H4, Ch2Ph, R1=CHMe2, Ph, 4-BrC6H4, 4-FC6H4, 4-FC6H4

L9 ANSWER 95 OP 114
ACCESSION NUMBER:
DOCUMENT NUMBER:
1974:552164 CAPLUS
11. Synthesis
12. Synthesis
13. Synthesis
14. Synthesis
15. Synthesis
16. Synthesis
16. Synthesis
17. Synthesis
18. Synthesis
18. Synthesis
18. Synthesis
18. Synthesis
1974:52164
1974:52164
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1974:52164
1974:52164
1974:52164
1974:52164
197

RL: SPN (Synthetic preparation); PREP (Preparation)

(preparation of)
54295-55-5 CAPLUS.
Piperazine, 4-[2-(acetyloxy)-3,5-dibromobenzoyl]-2-methyl-1-phenyl- (9CI)
(CA INDEX NAME)

<12/04/2007>

Erich Leese

10/513699

CODEN: USXXAM

Patent English DOCUMENT TYPE:

LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE US 1971-171319 US 1971-171319

US 3751417 A 19730807 US 1971-171319 19710812 <-PRIORITY APPLII, INPO: US 1971-171319 A 19710812 <-Georgian Control of the title Indoline deriva, with analgesic properties is
described. In an example, 1-acetyl-3-indolineacetic acid (1) was reduced
(borane/THP) to the aic, II which on treatment with PB37 gave III. III on
reaction with 1-phenylpiperazine gave IV (R1 = R2 = R3 = H, R4 = Ac).
Also reported are IV (R1 = S.6 - (MeD) 2, S.6 - enchylenedioxy, R2 = H, Mey, R3
= H, MeO; R4 = R2, p-105M4CO, S.6 - enchylenedioxy, R2 = H, Mey, R3
= H, MeO; R4 = R2, p-105M4CO, S.6 - enchylenedioxy, R2 = H, Mey, R3
= H, SPH (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 40118-64-7 CAPLUS
CN 1H-Indole, 1-acetyl-2,3-dihydro-5.6-dimethoxy-3-{2-(4-(4-methoxyphenyl)-3-methyl-1-piperazinyl)ethyl)- (9C1) (CA INDEX NAME)

40118-66-9 CAPLUS 5N-1,3-Dioxolof(s-f)indole, 5-acetyl-6,7-dihydro-7-[2-[3-methyl-4-(4-methylphenyl)-1-piperaxinyllethyl)- (9CI) (CA INDEX MAME)

5H-1.3-Dioxolo[4.5-f]indole, 6,7-dihydro-7-{2-{3-methyl-4-{4-methylphenyl}-1-piperazinyl]ethyl}-, trihydrochloride (9CI) (CA INDEX NAME)

Erich Leese

2946-76-1
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with acetyldihalosalicoyl chlorides)
2946-76-1 CAPLUS
(ACI, 7CI, 8CI, 9CI)

2946-76-1 CAPLUS
Piperazine, 2-methyl-1-phenyl- (6C1, 7C1, 8C1, 9C1) (CA INDEX NAME)

L9 ANSWER 97 OF 134 CAPLUS COPYRIGHT 2007 ACS ON STN
ACCESSION NUMBER: 1974:141107 CAPLUS
DOCUMENT NUMBER: 80:141107
TITLE: Pharmacological analysis of the role of the nervous

AUTHOR(S): CORPORATE SOURCE: SOURCE:

DOCUMENT TYPE:

MENT NUMBER: 80:141107

E: Pharmacological analysis of the role of the nervous system in inflammation

Trinus, P. P.

PORATE SOURCE: Kiev. USSR

Kiev. USSR

Kiev. USSR

MENT TYPE: CODEN: PATOBE, ISSN: 0430-0939

MENT TYPE: Journal

NUAGE: Russian

Seven compds. which affect the central nervous system and 17 compds, which affect the automomic nervous system were tested for their antinflammatory effects in rats with formalin induced inflammation. Compds. which inhibit the central nervous system were tested for their antinflammatory effects in rats with formalin induced inflammation. Compds. which inhibit the central nervous system were not.

The ganglion stimulator, dimethylphenylpiperazine [302-17-0], haxonal antinflammatory effect: whereas angliolytics did not. The cholinomimetic, carbachol [51-43-2], the anticholineaterases, enerine [51-43-4], octadine [60-02-6], the u-adrenolytics, dihydrocryotoxin [11312-41-0] and phentolamine [56-60-2], and the monoamine oxidase inhibitors iprazide [54-92-2], malamide [4387-09-1], and transamine [3721-28-6] were also antinflammatoril and the monoamine oxidase inhibitors iprazide [54-92-2], malamide [4387-09-1], and transamine

L9 ANSWER 98 OF 134 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1973:492267 CAPLUS
DOCUMENT NUMBER: 79:92227
TITLE: 1-Acyl-3-(2-(4-phenyl-1-piperazinyl)ethyllindolines
Allen, George Rodger, Jr., McEvoy. Francis J., De
Vries, Vern G., Moran, Daniel B., Littell, Ruddy
American Cyanamid Co.
SOURCE: U.S., 14 pp.

<12/04/2007>

Erich Leese

10/513699

●3 HC1

35947-11-6 35947-12-7
RL: RCT (Reactant), RACT (Reactant or reagent) (reaction of, with (bromoethyl)indolines) 35947-11-6 CAPIUS
Piperazine (2-methyl-1-(4-methylphenyl)- (CA INDEX NAME)

35947-12-7 CAPLUS
Piperazine, 1-(4-methoxyphenyl)-2-methyl- (9CI) (CA INDEX NAME)

CAPLUS COPYRIGHT 2007 ACS on STN 1973:417847 CAPLUS 79:17847 Thermodynamics of the complexing of silver by piperazine and some of its derivatives in water-ethanol solution

<12/04/2007>

AUTHOR(S): CORPORATE SOURCE:

Enca, O., Houngbossa, K.; Berthon, G. Lab. Thermodyn. Chim. Electrochim., Univ. Poitiers, Poilters, Fr. Thermochimica Acta (1973), 6(3), 309-17 CODEN: THACAS, ISSN: 0040-6031

SOURCE:

DOCUMENT TYPE: Journal

MENT TYPE:

Journal

The stability consts. of the complexes of Ag- ion with piperazine and its

2-methyl-. 2-methyl-l-m-tolyl-. 2-methyl-l-p-tolyl-, and

1-(p-methoxyphenyl)-1-methyl-derivs. are obtained at 35° in

water-EtON (52%, w/w) and XNO3 0.1 M ionic strength, by means of

corresponding metal-complex electrodes. The enthalpies of formation are

determined by direct calorimetry. The thermodh. functions AGn*,

AMn*, ASn* are discussed in relation to the

ability of each amine to coordinate, in terms of the nature and position

of the entering group.

JSW47-11-6 JSSW47-12-7

RL: PROC (Process)

(complex formation of, with silver ion, stability of)

JSW47-11-6 CAPLUS

Piperazine, 2-methyl-1-(4-methylphenyl)- (CA INDEX NAME)

ΙT

35947-12-7 CAPLUS Piperazine, 1-(4-methoxyphenyl)-2-methyl- (9CI) (CA INDEX NAME)

1.9 ANSWER 100 OF 134 CAPLUS COPYRIGHT 2007 ACS ON STN ACCESSION NUMBER: 1973:84255 CAPLUS DOCUMENT NUMBER: 78:84255

<12/04/2007>

Erich Leese

10/513699

PRIORITY APPLN. INFO.:

For diagram(s), see printed CA lssue.
Approx. 60 piperazinylethylindolines I (R = Ac, Bt, H, etc., Rl = Me, H;
R2 = H, o., p.meO, o., meMe, o., m.cl. etc., R3 = H, MeO, Br, O2N, Ac,
etc., R4 = MeO), tranquilizers, were prepared by reaction of a piperazine
with a J-(2-bromoechyl)indoline. Dosages oi I for 50% reduction of motor

IT

with a 3-(2-bromoethyll)indoline. Dosages 0: I for 50% reduction of motor activity in mice were given.
40118-64-7P 40118-66-9P 40118-85-2P
40119-01-5P
RL: SPN (Synthetic preparation), PREP (Preparation)
(preparation of)
40118-64-7 CAPIUS
| H-Indole. | -1-acetyl-2,3-dihydro-5,6-dimethoxy-3-[2-[4-(4-methoxyphenyl)-3-methyl-1-piperazinyl]ethyl] - (9CI) (CA INDEX NAME)

40118-66-9 CAPLUS 5H-1,3-Dioxolo[4,5-f]indole, 5-acetyl-6,7-dihydro-7-[2-[3-methyl-4-(4-methyl)henyl)-1-piperazinyl|ethyll- (9CI) (CA INDEX NAME)

40118-85-2 CAPLUS 5H-1,3-Dioxolo(4,5-f)indole. 6,7-dihydro-7-[2-[3-methyl-4-(4-methylphenyl)-1-piperainyl)ethyll- (9CI) (CA INDEX NAME)

40119-01-5 CAPLUS
1N-Indole, 2,3-dihydro-5,6-dimethoxy-3-{2-{4-(4-methoxyphenyl)-3-methyl-1-piperaxinyl)ethyll- (9CT) (CA INDEX NAME)

10/513699

3-[2-(4-Phenyl-1-piperazinyl)ethyl]indolines Allen, George Rodger, Jr., McBvoy, Francis Joseph Devries, Vern Gordon, Moran, Daiel Bryan, Litell, Ruddy TITLE: INVENTOR (5) :

PATENT ASSIGNEE(S): SOURCE:

Auddy
American Cyanamid Co.
Ger. Offen. 87 pp.
CODEN: GMXXBX
Patent
German
2

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2225765	A	19721207	DE 1972-2225765	19720526 <
US 3751416	A	19730807	US 1971-147700	19710527 <
ZA 7202916	A	19730228	ZA 1972-2916	19720501 <
CA 1014154	A1	19770719	CA 1972-140989	19720501 <
GB 1382916	A	19750205	GB 1972-20674	19720503 <
GB 1382917	A	19750205	GB 1973-56237	19720503 <
AU 7241918	A	19731108	AU 1972-41918	19720504 <
CS 185203	B2	19780915	CS 1972-3454	19720519 <
CS 185244	B2	19780915	CS 1976-248	19720519 <
CS 185245	B2	19780915	CS 1976-251	19720519 <
PL 81987	B1	19751031	PL 1972-155596	19720525 <
PL 92627	B1	19770430	PL 1972-176212	19720525 <
PL 92635	B1	19770430	PL 1972-176213	19720525 <
PL 92634	B1	19770430	PL 1972-176214	19720525 <
BE 784012	A1	19721127	BE 1972-117944	19720526 <
NL 7207129	A	19721129	NL 1972-7129	19720526 <
FR 2139158	A1	19730105	FR 1972-1896B	19720526 <
DD 100471	A5	19730920	DD 1972-163237	19720526 <
SU 489321	A3	19751025	SU 1972-1792254	19720526 <
SU 489322	A3	19751025	SU 1972-1960739	19720526 <
CH 579563	A5	19760915	CH 1972-7843	19720526 <
RO 60145	A1	19760915	RO 1972-71032	197,20526 <
CH 582142	A5	19761130	CH 1976-7597	19720526 <
CH 582172	A5	19761130	CH 1976-7598	19720526 <
CH 583700	A5	19770114	CH 1976-7595	19720526 <
CH 583701	A5	19770114	CH 1976-7596	19720526 <
NO 136795	В	19770801	NO 1972-1869	19720526 <
SE 395455	Ð	19770815	SE 1972-6918	19720526 <
SE 397524	B	19771107	SE 1974-2374	19720526 <
SE 397525	В	19771107	SE 1974-2375	19720526 <
RO 63715	A1	19781015	RO 1972-80196	19720526 <
RO 63730	A1	19781115	RO 1972-80194	19720526 <
RO 64489	A1	19790515	RO 1972-80193	19720526 <
HU 166178	В	19750228	HU 1972-AE360	19720527 <
HU 167203	В	19750927	HU 1972-AE400	19720527 <
HU 168720	В	19760728	HU 1972-AB401	19720527 <
ES 409281	A1	19760316	ES 1972-409283	19721204 <
ES 409282	A1	19760316	ES 1972-409282	19721204 <
ES 409283	A1	19760316	ES 1972-409283	19721204 <
ES 409284	A1	19760316	ES 1972-409284	19721204 <
US 3900495	A	19750819	US 1973-350445	19730412 <
SU 575024	. A3	19770930	SU 1973-1953507	19730726 <
SU-488408	A3	19751015	8U 1973-1960738	19730913 <
SE 7600531	A	19760120	8E 1976-531	19760120 <
CA 1056821	A2	19790619	CA 1977-276961	19770426 <

<12/04/2007>

Erich Leese

10/513699

IT

40119-10-6
RL: RCT (Reactant), RACT (Reactant or reagent)
(reduction of)
40119-10-6 CAPLUS
SH-1,3-Dioxolo(4.5-f)indole, 7-[2-[3-methyl-4-(4-methylphenyll-1piperaxinyllethyl]- (9CI) (CA INDEX NAME)

L9 ANSMER 101 OF 134 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1972:405077 CAPLUS
TOCUMENT NUMBER: 773:5077
TITLE: 8 Pyntheses of heterocyclic compounds, CDLX, Benzyne reaction, XIII. Benzyne reaction of halogenobenzenes with N-alkylmorpholines (with N-alkylmorpholines) Kametenii, T.; Xiqasawa, K., Hiiragi, M.; Aoyama, T. Pharm. Inst., Tohoku Univ., Sendai, Japan Journal of Organic Chemistry (1972), 37(9), 1450-3 CODEN; JOCEAN, ISBN, n029-3261

SOURCE: Journal of Organic Chemistry (1972), 37(9), 1450-3

DOCUMENT TYPE: JOURNAL JOCEAH, ISBN: 0022-3263

DOCUMENT TYPE: JOURNAL JOCEAH, ISBN: 0022-3263

AB The benzyne reaction of N-alkylmorpholines with bromobenzene in the presence of NaN12 gives mixts. of N-alkylanilines and N-alkyl-N-1-hydroxyethylanilines. Minor amts. of ylide rearrangement products were obtained with other tertiary amines.

IT 33905-48-59 33905-49-6P

RL: SPN (Synthetic preparation), PREP (Preparation)
(preparation of)

RN 33905-48-5 CAPLUS

CN Piperazine, 2,4-dimetnyl-1-phenyl- (9CI) '(CA INDEX NAME)

<12/04/2007>

31905-49-6 CAPLUS Piperazine, 2,4-dimethyl-1-phenyl-, monohydrochloride (9CI) (CA INDEX NAME)

● HCI

L9 ANSWER 102 OF 1)4 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION RUMBER: 1972:149138 CAPLUS
TITLE: 75:149138 Agents acting on the central nervous system. 14.
1- (p-alkanoylphenoxy)-3- (N4-ary)piperazinyl)propan-2ols New class of antidepresants
AUTHOR(S): Rastogi, S. Nivas; Anand, Nitya, Prasad. C. R.
Div. Med. Chem., Cent. Drug Res. Inst., Lucknow, India
Journal of Medicinal Chemistry (1972),
15(3), 266-91
COBEN; JMCMAR; ISSN: 0022-2623
JOURNAL JOUR

CODEN: JMCNAR; ISSN: 0022-2623

DOCUMENT TYPE: JOURNAI
LANGUAGE: English

THER SOURCE(S): CASREACT 76:149138

AB 1-(P-alkanoylphenoxy)-3-(4-piperazinyl)-2-propanols (I).
1.3-bis(aryloxy)-2-propanols (II) and related compds. were prepared, e.g.,
by condemsation of 1-aryloxy-2,3-epoxypropanes with amines and screened
pharmacol. 1-(P-propionylphenoxy)-3-(4-phenylpherazinyl)-2-propanol

[III) [34675-77-9] counteracted reserpine-induced depression in cats and
potentiated amphetamine-induced stimulation in nice and rats at 5-10

mm/Ky; at 106 mg/Kg, III counteracted amphetamine-induced hyperactivity
and toxicity in aggregated mice. Structural modifications of II gave
decreased antidepressant activity, thus III activity is specific and very
similar to that of amitriptyline [50-49-6] and imipramine [50-49-7].

II 36116-92-1

RI: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(pharmacology of)

<12/04/2007>

10/513699

Piperazine, 1-(4-methoxyphenyl)-2-methyl- (9CI) (CA INDEX NAME)

L9 ANSMER 104 OF 114 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1972:72551 CAPLUS
DOCUMENT NUMBER: 76:72551
TITLE: 5-(2-Aminocthyl)-2.3-piperazinediones and

5-(2-Aminocthy)]-2,3-pperained and a 3-(2-Aminocthy)]piperaines Lunsford, Carl D., Cale, Albert D., Jr. A. H. Robins Co., Inc. Ger. Offen., 28 pp. CODEN: GWAXBX Patent INVENTOR (S)

PATENT ASSIGNEE(8): SOURCE:

PATENT INFORMATION:

DATE 19711111 19730616 19731219 19720121 19720121 19720126 19730430 DATE PATENT NO. KIND APPLICATION NO. DE 1971-2120367 ES 1971-389548 GB 1971-10219 FR 1971-14802 DE 2120367 ES 389548 GB 1340894 FR 2092096 FR 2092096 ZA 7102663 CH 534685 19710426 <--19710325 <--19710420 <--19710426 <--ZA 1971-2663 CH 1971-6092 19710426 <--19710426 <--19750128 US 1972-230459 US 1970-32346 US 3862938

US 1862918 A 19750128 US 1970-210459 19720229 <-RITT APPLN. INFO.:
US 1970-32346 A 19700427
For diagram(s), see printed CA Issue.
Title compds. useful as antiviral agents against myxoviruses, were prepared by reaction of 5-(2-chloroethyl)-2,3-pigerazinediones with amines to give the corresponding aminoethylpiperazinediones (I) and reduction of I with LiAllH to give the piperazines (II). Thus, I (R = Me, Rl = Cl) was refluxed 4 hr in morpholine to give 70 I (R = Me, Rl = Cl) was refluxed 4 hr in morpholine (VI); iso-Pr. NMc2 (VV) cyclohexyl, morpholine (VI); iso-Pr. NMc2 (VV) cyclohexyl, morpholine (VI); iso-Pr. Okol (VIII) (V); iso-Pr. NMc2 (VII). III was refluxed 4 hr with LiAllH in THF to give 601 II (R = Me, Rl = morpholino). Similarly prepared were II (R and Rl given): Et, morpholino; cyclohexyl, morpholino (VIII), cyclohexyl, NMe2. IV, VII, and VIII were active against influenza, V, VI, and VIII against parainfluenza type III, and VIII was active against respiratory syncytial virus.

Brich Leese

virus. 34933-34-1P 34933-35-2P 34933-36-5P RL: SPN (Synthetic preparation), PREP (Preparation)

36115-92-1 CAPLUS 1-Propanone, 1-{4-{2-hydroxy-3-(3-methyl-4-phenyl-1-piperazinyl)propoxy|phenyl}- (9CI) (CA INDRX NAME)

L9 ANSWER 103 OF 134 ACCESSION NUMBER: DOCUMENT NUMBER: TITLE:

AUTHOR (S) : CORPORATE SOURCE:

CAPLUS COPYRIGHT 2007 ACS on STN
1972:90929 CAPLUS
76:90929 CAPLUS
76:90929 Heats of protonation of piperazine and some
derivatives in water-ethanol media
Berthon, Guy, Enea, Octav, Houngbosas, Kousesi
Lab. Thermodyn. Chim. Electrochim., Univ. Poitiers,
Poitiers, Pr.
Comptes Rendus des Seances de l'Academie des Sciences.
Serie C. Sciences Chimiques (1971),
273 (18), 1140-3
CODEN: CHDCAQ, ISSN: 0567-6541
Journal
Prench

SOURCE:

DOCUMENT TYPE: LANGUAGE:

MENT TYPE: Journal WARE: Prench
At 25° with water-52° EtOH as solvent and ionic strength 0.1
mole/dm3 (KNO3), the standard Glbbs free energies (in kcal/mole), standard enthalpies (in kcal/mole), and standard entropies (in cal/degree mole), resp., for the protonation reactions Ahn-1(n-1) + H + Alnnh (n = 1,2)
are: piperasine -12.60, -10.5, +7.0 for n = 1, -7.10, -7.0, 0 for n = 2,
2-methyll-piperazine -12.22, -10.4, +6.1 for n = 1, -6.8, -6.4, +1.9 for n
= 2, 2-methyl-1-m-tolylpiperazine -11.12, -8.8, +7.8 for n = 1,
1-(p-methoxyphonyl)-2-methylpiperazine -11.13, -8.4, +9.5 for n = 1,
15947-11-6 35347-12-7
RL: PROC (Process)
(thermodynamics of protonation of)
35347-11-6 CAPLUS
Piperazine, 2-methyl-1-(4-methylphenyl)- (CA INDEX NAME)

PN 35947-12-7 CAPLUS

<12/04/2007>

Brich Leese

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(preparation of)
34933-34-1 CAPLUS
Morpholine, 4-[2-(4-methyl-1-phenyl-2-piperaxinyl)ethyl]- (9CI) (CA INDEX NAME)

34933-35-2 CAPLUS Morpholine, 4-[2-(4-ethyl-1-phenyl-2-piperazinyl)ethyl]- (9CI) (CA INDEX NAME)

34933-38-5 CAPLUS .
Piperazine, 1-phenyl-2-[2-(1-piperidinyl)ethyl]- (9CI) (CA INDEX NAME)

L9 ANSWER 105 OF 134 ACCESSION NUMBER: DOCUMENT NUMBER: TITLE:

CAPLUS COPYRIGHT 2007 ACS on STN
1971:139148 CAPLUS
74:139148 Effects of morpholino-, pyrrolidino-, piperazino-, and
cyclooctyl-derivatives of B-alanine on brain
amines and amino acids
Leonard, Srian E., Liska, Kenneth J.
Imp, Chem. Ind. Ltd., Cheshire, UK
Life Sciences (1971), 10(3) (Pt. 1), 93-104
CODEN: LIFSAX, ISSN: 0024-3305
Journal

DOCUMENT TYPE: LANGUAGE:

English

<12/04/2007>

Por diagram(s), see printed CA Issue.

Eight fi-alanine derivs., related structurally to the D-ring of lysergic acid diethylamide (LSD), were synthesized and examined for psychotomimetic activity in rats. On the basis of 11 parameters studied, such as behavioral effects, hyperthemia, and effects on brain catechol amines, little similarity was observed between these derivs. and LSD. Et 3-(cyclocotylaminolpropionate (II exhibited the action profile most like LSD, followed by 3-14-(4-menthoxyphenyl)-3-methyl-1-piperazinyl-1-N,N-diethylpropionamide (II), Et 3-14-(4-methoxyphenyl)-3-methyl-1-piperazinyl-1-N,N-diethylpropionamide (II), and 3-12-(1-pyrcolidinyl)-thylaminol-N,N-diethylpropionamide. 3-(2-Mor-pholinoethylamino)-N,N-diethylpropionamide showed no neurochem, effects similar to LSD.

12559-61-8 32835-69-1

RLs BIOL (Biological study)
(brain amino acids and pyrocatechol amines in response to)
12559-61-8 CAPLUS
1-Piperazinepropanoic acid, 4-(4-methoxyphenyl)-3-methyl-, ethyl ester, hydrochloride (9CI) (CA INDEX NAME)

32835-69-1 CAPLUS 1-Piperazinepropanamide, N.N-diethyl-4-(4-methoxyphenyl)-3-methyl-, hydrochloride (9CI) (CA INDEX NAME)

< 12/04/2007s

Erich Leese

10/513699

L9 ANSWER 107 OF 134 CAPLUS COPYRIGHT 2007 ACS ON STN ACCESSION NUMBER: 1970:66985 CAPLUS DOCUMENT NUMBER: 72:66985

DOCUMENT NUMBER: TITLE: PATENT ASSIGNEE(S):

72:66985
Piperazinyl derivatives
Byk-Gulden Lomberg Chemische Fabrik G.m.b.H.
Brit., 9 pp.
CODEN: BRXXAA
Patent
English 1

DOCUMENT TYPE: LANGUAGE: PAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO. DATE KIND APPLICATION NO. DATE

PATENT NO. KIND DATE APPLICATION NO. DATE

OB 1164595
DE 1670200
PR
PRIORITY APPLM. INFO.:

AB Piperazinylpropionic acid anilides, useful for sedative, neuroleptic, and analgesic properties, are prepared Thus, a hot solution of 10 g 4 (N-thromopropionylamino)-5-nitroveratrole (preparation of this and similar compds. giveni in 50 ml MeCN is slowly poured into a solution of 6 g ethyldicyclohexylamine and 5.1 g 1-phenyl-4-piperazinylpropionic acid (2-nitro-4, 5-dimethoxy)anilide, m. 167.5-8.5°. Over 100 similar compds. are described.

17 26961-45-52 27128-75-2P
RL: 8PM (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 26961-45-5 CAPLUS
CN 1-Piperazinepoinanilide, 4'.5'-dimethoxy-3-methyl-2'-nitro-4-phenyl-(8CI) (CA INDEX NAME)

27128.75.2 CAPLUS 1-Piperazinepropionanilide, 2'-bromo-4',5'-dimethoxy-3-methyl-4-phenyl-(8CI) (CA INDEX NAME) 10/513699

●x HC1 .

CAPLUS COPYRIGHT 2007 ACS on STN 1970:7618) CAPLUS ' 72:7818] Herbicidal halogen-containing amino alcohols Esso Research and Engineering Co. L9 ANSWER 106 ACCESSION NUMBER DOCUMENT NUMBER: ANSWER 106 OF 134 TITLE: PATENT ASSIGNEE(S): SOURCE; Brit., 19 pp. CODEN: BRXXAA DOCUMENT TYPE: LANGUAGE: PAMILY ACC. NUM. COUNT: PATENT INFORMATION: Patent English 1

DATE 19700121 PATENT NO. KIND APPLICATION NO. DATE OB 1178420 DE 1643315 US 3520929 GB 1967-46007 . 19671009 <--US 350929 19700721 US 19661019 4RITTY APPLN. INPO.:

Herhicidal and fungicidal title compds, were prepared by reaction of halo
ketones and aldehydes with amines. Thus B3 (FSC120 was passed into a
solution of 50 g N.N-dimethyl-1,3-propanediamine in 200 ml Et20 at
-50* to glv 2-13-(dimethylamino)propylamino)-1,1,1,3,5,3hexafluoro-2-propanol, m. 62.5-3.5*. Similarly 58 compds, were
prepared, and screened as pro- and postemergent herbicides at 10 lbs/acre on
millet, ryegrass, sorghum, astor, buckwheat, and turnip. Bean rust fungus
Uromyces phaseoli and Erysiphe polygoni bean mildew were controlled by
1000 ppm of most of the compds, tested.
26799-46-2 CAPLUS
1-Piperariation of)
26799-46-2 CAPLUS
1-Piperariatemethanol, 3-methyl-4-phenyl-4,4bis(trifluoromethyl)- (SCI) (CA INDEX NAME) 19700721 19661019 <--US US PRIORITY AB Her

<12/04/2007>

Erich Leese

10/513699

L9. ANSWER 108 OF 134
ACCESSION NUMBER:
DOCUMENT NUMBER:
TITLE:
PATENT ASSIGNEE(8):

CAPLUS COPYRIGHT 2007 ACS on STN
1969:78009 CAPLUS
70:78009
N-[2-{Pyrazol-4-ylcarbonyl}ethyl}-N-arylpiperazines
CIBA Ltd.
Fr., 23 pp.
CODEN: PRXXAK
PRANT

SOURCE:

DOCUMENT TYPE: LANGUAGE: FAMILY ACC, NUM. COUNT: PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE FR 1510206 US 3470184 PRIORITY APPLN, INFO.: PR 1966-87512 US CH CH 19661215 <-19661222 <-19651223
19661110

US 3470184 19661212 <--RITTY APPLN. INFO.: CH 19651213
CH 19651213
For diagram(s), see printed CA Issue.
Pyrazol-4-ylcarbonylethyl piperazines (I), useful as hypotensive agents, are prepared A mixture of 9.8 g, 4-acetyl-1-carbethoxy-5-methylpyrazole (II), 4.5 g, paraformaldehyde, 12.5 g, N-(2-methylphenyl)-piperazine-2HCl, 8 drops concentrated HCl, and 150 ml. EtON is refluxed overnight to give N-[3-(1-carbethoxy-5-methyl-4-pyrazolyl)-3-oxo-propyll-N-(2-methylphenyl)piperazine; HCl salt m, 214-15* (decomposition) Similarly prepared are the following I (X = OEt, R = Me) (Ar and m.p. HCl salt given): o-CLCCH4, 215-16* (decomposition); p-FC6H4, 215* (decomposition); o-DecoC6H4, 202-3* (decomposition); p-FC6H4, 215* (decomposition); p-F

<12/04/2007>

RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
21635-26-7 CAPLUS
Pyrazole-1-Carboxylic acid, 5-methyl-4-[3-(3-methyl-4-phenyl-1-piperazinyl)propionyl)-, ethyl ester (aci) (CA INDEX NAME)

L9 ANSMER 109 OF 134 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1956:441915 CAPLUS
DOCUMENT NUMBER: 69:43915
TITLE: 1:(2-Ethoxy-2-phenylethy!)-4-arylpiperazines
INVENTOR(6): DE Stevens. George, Mull, Robert P.
PATENT ASSIGNEE(5): CIBA Ltd.

PATENT ASSIGNEE(S): SOURCE: Patentschrift (Switz.), 3 pp.

CODEN: SWXXAS Patent German DOCUMENT TYPE:

PATENT INFORMATION:

DATE APPLICATION NO.

PATENT NO. KIND DATE APPLICATION NO. DATE

19640125 CH 446350

CH 446350

2-MeOCSH4NH(CH2) 2NH2 (69 g.) and 9.2 g. ELOCHPHCH2Cl in 250 ml. was refluxed 24 hrs. to give 2-MeoCSH4NH(CH2) 2NHCH2CH(OEL)Ph, which (5 g.) in 40 ml. Buoth was refluxed 17 hrs. with 3 g. (CH2B7)2 and excess Na2CO3 to give 1-(2-ethoxy-2-phenylethyl)-4-(2-methoxyhenyl)piperazine (1) (R = 2-MeOCSH4, R1 = H), di-HCl salt m. 215-17° (ELOH-MeCN). Similarly prepared were the following I (R, R1, b.p./mm., salt, and m.p. salt given); Ph. N. 177-80°/0.35, di-HCl, 225-8°; 2-ClCGH4, H. 185-90°.0.55, HCl, 200-3° (ELOGA); Ph. Me. 165-80°/0.55, HCl, 200-3° (ELOGA); Ph. Me. 165-90°/0.2, di-HCl, 197-9° (ELOH); 3-MeCGH4, H. 185-90°/0.2, di-HCl, 197-9° (ELOH); and 2-pyridyl, H. 185-90°/0.5, di-HCl, 125-30° (ELOH-REL2O). I show

<12/04/2007>

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16403-72-8 CAPLUS (m,m'-Bitolyl]-4.4'-diol, 5.5'-diallyl- α,α' -bis[4-(p-chlorophenyl)-3-methyl-1-piperazinyl]- (8CI) (CA INDEX NAME)

16403-77-3 CAPLUS $[m,m'-\text{Bicolyl}] - 4, 4'-\text{diol}, \quad a, a'-\text{bis}\{4-\{p-\text{chlorophenyl}\}-3-\text{methyl-1-piperazinyl}\} - \\ (\text{BCI}) \quad \text{(CA INDEX NAME)}$

antiinflammatory, antihypertensive, adrenolytic, diuretic, and saliuretic activity and are norepinephrine antagonists.
853-91-8P 853-92-9P RL: SPN (Synthetic preparation), PREP (Preparation) (preparation of) 853-91-8 CAPLUS

Piperazine, 4-(\$-ethoxyphenethyl}-2-methyl-1-phenyl- (7CI, 8CI) (CA INDEX NAME)

853-92-9 CAPLUS
Piperazine, 4-(H-ethoxyphenethyl)-2-methyl-1-phenyl-, dihydrochloride
(7CI, 8CI) (GA INDEX NAME)

Ph , | CH2-CH-OEL

●2 HC1

L9 ANSMER 110 OF 134 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1958:2801 CAPLUS
DOCUMENT NUMBER: 88:2801 CAPLUS
TITLE: phenolic, and β-aminoketone derivatives
AUTHOR(S): Magarian, Robert A.: Nobles, M. Lowis
CORPORATE SOURCE: Univ. of Mississippi, University, MS, USA
SOURCE: 56(8), 997-92
CODEN: TYPE: JOURNAIL
LANGUAGE: CODEN: JPMSAE, 19SN: 0022-3549
LANGUAGE: English
CI FOR diagram(s), See printed CA Tasue.

<12/04/2007>

Erich Loese

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$$\begin{array}{c|c} & \text{HO} & \text{OH} \\ & \text{CH}_2 & \text{CH}_2 & \text{N} \\ & \text{Me} \end{array}$$

RN CN

CAPLUS 1,1'-methylenebis[4-(p-chlorophenyl)-3-methyl- (8CI) (CA

PAGE 1-A

ANSMER 111 OF 134 CAPLUS COPYRIGHT 2007 ACS ON STN SSION HUMBER: 1966:104296 CAPLUS WEBT NUMBER: 64:104296 INAL REFERENCE NO: 64:19641a-h,19642a

.

ACCESSION NUMBER:
DOCUMENT NUMBER:
ORIGINAL REFERENCE NO.:

Diazacycloalkanes Yost, William L., Margerison, Richard B. CIBA Corp. TITLE: INVENTOR(S):

INVENTOR(S):
PATENT ASSIGNEE(S):
SOURCE:
DOCUMENT TYPE:
LANGUAGE:
PAMILY ACC. NUM. COUNT:
PATENT INPORMATION: 10 pp. Patent Unavailable

PATENT NO. KIND DATE APPLICATION NO. DATE

PATENT NO. XIND DATE APPLICATION NO. DATE

US 3247306 1960419 US 1962-228760 19621005 <-PRIORITY APPLN, INFO:

If or diagram(a), see printed CA Issue.

AB I-V, which can easily be prepared from R2RICO, RINNI2, NACN, and CICHR4COC1, are treated with LiAllH to give VI-X. Similarly prepared are the corresponding diazacycloheptanes and diazacycloctanes. To a solution of 830 g. NaNSO3 in 1840 ml. H20 was added during 1 hr. at 60-70-352°g.

AcH and, after 0.5 hr. stirring, 745 g. PhNNI2 during 0.5 hr. Diluting with 200 ml. H20, stirring 20 min., addg, 405 g. NaCN in 900 ml. H20, stirring 15 min. (temperature below 70°), and stirring 20 min. gave 61.5%

N-(1-cyanocchyl)aniline (XII). To a mixture of 17.4 g. XI and 12.6 g. Na2CO3 in 87 ml. C6H6 was added 18.2 g. CICH2COC1 in 87 ml. C6H6 and the mixture refluxed 75 min. and kept overnight to give 95.74 I. m. 66-8°. A mixture of 11.37 g. LiAlH4 and 280 ml. tetrahydrofuran (THP) was refluxed under N 20 mln. and copled to 25°. After dropwise addition at 25° of 22.26 g. I in 85 ml. THF (18 min.), THF was distilled and replaced by PhMe, until during 50 min. 500 ml. distillate were collected. The mixture was refluxed 6 hrs.. cooled to 25°, and quenched with 18 ml. H20 and 12.3 ml. 154 NoOH. After standing overnight, filtration, and evaporation, the residue was refluxed 2.5 hrs. with 8.5 g. Na2CO3 in 50 ml. PhMe to give 58.55 VI, bl. 115-25°. Reaction of VI with an equimolar amount of PhNCs gave the phenylthiocarbamoyl derivative of VI, m. 158-60° (EtCH). A similar reduction of 222.6 g. I with 113.7 g. LiAlH4 and 22.26 g. I in 365 ml. THP was distilled and the THF replaced by xylene, until 340 ml. distillate was collected. The mixture was refluxed 6.75 hrs., cooled, treated with 15 ml. H20 and 10.25 ml. 154 NaON; filtered, and evaporated Refluxing the residue 2.5 hrs. with 8.5 g. Na2CO3 in 35 ml. PhMe gave 63.44 VI, bl. 114-20°. To a suspension of 52.2 g. XI and 37.8 g. Na2CO3 in 482 ml. C6H6 was added dropwise during 10 mln. 49.5 g. McCHClCCC1 in 100 ml. C6H6. The mixture w

<12/04/2007> Erich Leese

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1-Piperazinecarboxanilide, 3-methyl-4-phenylthio- (7C1, 8C1) (CA INDEX

CODEN: TELEAY, ISSN: 0040-4039

OCCUMENT TYPE: Journal
LANOUAGE: Ocrean
OI For diagram(s), see printed CA Issue.
AB cf. Neine-and Peavy, CA 63, 14796e. By a ring opening between the 2 and 3 positions, di-Me 1-(p-methoxyphenyl) Maritdine-2,3-dicarboxylate (I) adds to C:C and C:tplbond.C compds. to give pyrrolidine or pyrrolide derivs.
Heating di-Me 1-(p-methoxyphenyl)-12-12,3-triasoline-4,5-trans-dicarboxylate at 100° gives I as a 15:85 cis-trans mixture The reactions and epimerizations of I presumably proceed through the intermediate formation of epimers of Med2CCH: N·(p-MedC6H4C-HCC2Me. Heating di-Me fumarate (II) and I at 140° yields 941 tetra-Me
1(p-methoxyphenyl) pyrrolidine-2,3,4,5-tetracarboxylate (III) concaining an oily isomer (IIIa) and 590 of a crystalline isomer (IIIb) m. 112-133°. IIIa and IIIb are dehydrogenated by chloranil (IV) in boiling Decalin to give 21 and 221 yields, resp., of tetra-Me 1-(p-methoxyphenyl)pyrrole-2,3,4,5-tetracarboxylate, independently synthesized by the method of Nuntress, et al. (CA 50, 11979b) from p-MedC6H4NGH and (Med2Cc.tplbond.)2. III is also prepared in 611 yield from II and p-MedC6H4NG at 100-100°. At 110 per hoxyphpy proper (inter-2,3),4,4,5-bexacarboxylate containing 650 of the cis form, m. 114-115' dine-2,3,4,4,5-bexacarboxylate containing 650 of norbornene to I at 100° gives 944 V containing 630 cis form (V, R = CC2Me, R1 + H), an oil, and 374 trans form (V, R + H, R1 = CC2Me), m. 87-9°, separated by thin layer chromatography. IV in boiling cymene converts V to VI, m. 161-2.* At 125°, I combines with HC.tplbond.CH in Med2Co to give an 814 yield of adducts, presumably a mixture of A2- and A3-pyrrolines which are dehydrogenated by IV Vi billing xylene to give a 684 yield of di-Me 1-(p-methoxyphenyl)pyrrole-2,5-dicarboxylate. identical to the product obtained from p-MeOC6H4NH2 and

II with 11.37 g. LiAlH4 yielded 57.44 VII, b1, 117-25*, phenylthiocarbamoyl derivative m. 163-5* (EtCH). A mixture of 312.2 g. NaiSO3, 590 ml. H2O, and 43.5 g. Me2CO, prepared at 60-70*, was refluxed 45 mln. and treated at 55* with 46.5 g. PhNHZ. After 1 hr. reflux and addition of 100 ml. Me2CO and 29.5 g. NaCN in 65 ml. H2O, refluxing was continued 30 mln. to give 68.8 g. N. 12-cyano-3-propylaniline (XII), m. 92-4* (504 EtCH). Refluxing 19.2 g. XII and 14.8 g. ClCl2COCI in C6H6 with Na2CO3 yielded III, m. 82-90* (AcOEX), which was dissolved in 85 ml. THY and added dropwise to 12 g. LiAlH4 in 300 ml. THY. The mixture was refluxed 6 hra. quenched with 19 ml. H2O and 13 ml. 15* NaOM, filtered, and evaporated The residue was refluxed 2.5 hrs. with Na2CO3 in PhNet to give 3.7 g. VIII, bl. 110-15* phenylthiocarbamyl derivative. 193-2* Refluxing ml. 816 with 21.2 g. Na2CO3 government of the residue of the control of the control

(XIII), which was treated with 10.9 g. Lialik in 385 ml. THF (6 hrs. reflux). Addition of 17.3 ml. H20 and 11.8 ml. 158 MaOH. filtration, evaporation of the residue with Na2GO3 in refluxing PhMe, and distillation gave treated with calculations of the second of the residue with Na2GO3 in refluxing PhMe, and distillation gave treated and account of 42.2 g. XIII in 150 ml. THF was added to 16.15 g. Lialik in 400 ml. THF at 37.40° and the mixture kept 2.5 hrs. to give 33.98 (hamed on XI) XIV, bl. 118-20°. In this case, XIII was prepared from 29.2 g. XI, 27.7 g. Cl(CM2)2COC1, and 21.2 g. Na2CO3 in 350 ml. (ClCM2)2 by stirring 2.5 hrs. at -15° and keeping 16.5 hrs. at -35° to -40° to give a yield of 56.6 g. A mixture of 29.2 g. XI, 30 g. Cl(CM2)3COC1, and 21.2 g. Na2CO3 was refluxed 45 mln. in Csilis to give crude N-(y-chlorobutyryl)-N-(1-cyanoethyl) aniline, which was treated with 10.9 g. Lialik in 188 ml. THF (6 hrs. reflux) to give 10.4 g. 2-methyl-1-phenyl-1.4-distacyclooctane, bl. 138-42°. The reaction of paraformaldebyde with PhMH2 and HCN and trenment of the N-cyanomethylaniline with ClCH2COC1 led to IV, which was treated with ClCH2COC1 to give V. Reduction of V with 3 equivs. Lialik to give IX, bs 156°. Similarly, paraformaldebyde. iso-PFNN2, and XCN gave N-cyanomethyl-N-isopropylamine, which was treated with ClCH2COC1 to give V. Reduction of V with 3 equivs. Lialik 10.18 cl. XIII security of the phCH2MMBO30 gave N-(2-cyanoethyl)-N-methylamine (XV), which was treated with ClCH2COC1 to give V. Reduction of V with 3 equivs. Lialik 1-methyl-1.5-disarcyclooctane, bl. 27 1-3°, my reaction of XV with 11 account of XV with 12 account of XV with 13 equivs. Lialik 1-methyl-1.5-disarcyclooctane, bl. 27 1-13°, was obtained. The new disarcycloalkanes are useful as anthelmintics and a

RN 4318-46-1 CAPLUS

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di.Me α,α'-dihydroxymuconate (Kuhn and Dury, CA 45, 7017a).

B2C.tplbond.CPh and I at 100° yield 93% of an adduct dehydrogenated by IV in PhMe to give 55% di-Me ester of 3-benzoyl-1-(p-methoxyphenyl)-4-phenylpyrrole-2,5-dicarboxylia caid (VII). VII decarboxylates at 200° to give 3-benzoyl-1-(4-methoxyphenyl)-4-phenylpyrrole-2,5-dicarboxylates at 200° to give 3-benzoyl-1-(4-methoxyphenyl)-4-phenylpyrrole (VIII), characterized by its 2,4-dinitrophenyllydrazone. VIII is also prepared by condensing the Na derivative of BrCH3CHB with p-MeoCeHANICH2Br, and cyclizing the product with concentrated H2804. Photochem. or thermally (150°), I dimerizes to give a mixture from which two isoners, m. 188-9° and 240-1°, of tetra-Me 1,4-bis (p-methoxyphenyl)piperazine-2,3-5,-cteracarboxylate have been isolated. Heating Me 1-phenylariridine-2-carboxylate (IX) 6 hs, at 200° gave 50% of the di-Me ester of 1,4-diphenylpiperazine-2,3-trans-dicarboxylic acid (X), m. 132-3°, and 5% of the cis ester, m. 105-6°. Distillation of Ca sale of X yields (PHNICH2) 2 and 1,4-diphenylpiperazine. The reaction of IX with trans-(BCH)2 (XI) gives a 1:1 adduct, m. 120-1°, and with PhCH:NMe, an adduct, m. 132.5-4° (attructures not given). The addition of 1-benzyl-2,3-trans-dibenzoylariridine to XI gives 3/4% of 1-benzyl-2,3-trans-dibenzoylariridine to XI gives 3/4% of 1-benzyl-2-aziridinecarboxylate (1:1)

RL: PREP (Preparation)

(preparation of)

Spenses - CAPIUS

2-piperazinecarboxylic acid, 1-phenyl-, methyl cater, compd. with N-benzylideneenthylamine (1:1) (SCI) (CA INDEX NAME)

CM 1

CRN 622-29-7 CMP C8 H9 N

Ma - N = CH- Ph

<12/04/2007>

L9 ANSWER 113 OF 114 CAPLUS COPYRIGHT 2007 ACS ON STN
ACCESSION NUMBER: 1955:415903 CAPLUS
OCCUMENT NUMBER: 631:16903
ORIGINAL REFERENCE NO.: 63:2985g-h
TITLE: 1NVENTOR(S): De Stevens, George, Mull, Robert P.

PATENT ASSIGNEE(S):
SOURCE:
DOCUMENT TYPE:
LANGUAGE:
PAMILY ACC. NUM. COUNT:
PATENT INFORMATION: CIBA Ltd. 32 pp. Patent Unavailable

	PATENT NO.	KIND		APPLICATION NO.	DATE
				· · · · · · · · · · · · · · · · · · ·	
	BE 642845		19640722	BB	<
	FR 1404442			FR	
	PR M3308			FR	
	FR M3309			PR	
	GB 1047044			GB	
PRIO	RITY APPLN. INPO.:			US	19630123
THE	R SOURCE(S):	MARPA?	F 63:16903	•	
31	For diagram(s), se	e printe	d CA Issue.		
AB				prepared and can be use	d as
	antiinflammatory a	nd diur	tic agents.	. Thus, a mixture of 1:	L.8 q.
	Ph (Eto) CHCH2C1, 12	.5 q. 1	- (2-methoxy	henyl)piperazine, and :	200 ml. BuOH is
				0.0 g. Na2CO3 to give	
				(yphenyl)piperazine, b	0.9
				ind MeCN). Also prepare	
				., and m.p. 2HCl salt	
	H. 177-80°/0.35.				
	200-3° (EtOAc); Me				
				Also prepared are	
				(1) piperazine [b0.5 185	-90°.
				, 1-(2-hydroxy-2-phenyl	
				(2CH2) 2NCH2CH (OEt) Ph.	,
ΙT				nethyl)-2-methyl-1-	
• •				thoxyphenethyl)-2-	
	methyl-1-phenyl-,			,, . ,	
	BI. BUPD (Brookers				

metny:-1-pneny:-, dinydrochloride RE: PREP (Preparation) (preparation of) 83-91-8 CAPULS Piperasine, 4-([-ethoxyphenethyl)-2-methyl-1-phenyl- (7CI, BCI) (CA INDEX NAME)

B53-92-9 CAPLUS
Piperazine, 4-(\(\beta\)-ethoxyphenethyl)-2-methyl-1-phenyl-, dihydrochloride
(7CI, BCI) (CA INDEX NAME)

<12/04/2007>

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●2 HC1

905-90-8 CAPLUS
Piperazine, 4-{|-ethoxy-p-fluorophenethyl}-2-methyl-1-phenyl-,
dihydrochloride (7CI, 8CI) (CA INDEX NAME)

●2 HC1

1168-17-8 CAPLUS
Piperazine, 4-(3-ethoxy-3-phenylpropyl)-2-methyl-1-phenyl-,
dihydrochloride (7CI, BCI) (CA INDEX NAME)

2281-97-2 CAPLUS Piperazine, 4-(3-methoxy-3-p-tolylpropyl)-2-methyl-1-phenyl-, dihydrochloride (TCI, 8CI) (CA INDEX NAME)

10/513699

●2 HC1

L9 ANSHER 114 OF 134
ACCESSION NUMBER:
DOCUMENT NUMBER:
1965:8303 CAPLUS
1962:8309
1962:8309
62:85309
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<12/04/2007>

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10/513699

L9 ANSMER 115 OF 134
ACCESSION NUMBER:
DSCUMMENT NUMBER:
ORIGINAL REPERENCE NO.:
62:85302
ANIHOR(S):
AUTHOR(S):
CORPORATE SOURCE:
SOURCE:
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DOCUMENT TYPE:

MENT TYPE: JOURNA! JMCMAR; ISSN: 0022-2623

MENT TYPE: JOURNA!

A large number of Mn: Thirevalue compds, were prepared for broad biol.

A large number of Mn: Thirevalue compds, were prepared for broad biol.

A large number of Mn: Thirevalue compds, were prepared for broad biol.

A large number of Mn: Thirevalue compds, and thirtypertensive,

addrenolytic, and antinfilomatory properties. A structure-activity

relation study was carried out to sep, these activities in single compds.

\$53-92-9P, Piperazine, 4-(N-ethoxyhenethyl)-2-methyl-1
phenyl-, dihydrochloride 905-90-8P, Piperazine,

4-(N-ethoxy-p-fluorophenethyl)-2-methyl-1-phenyl-, dihydrochloride

1168-17-8P, Piperazine, 4-(1-ethoxy-3-phenylpropyl)-2-methyl-1
phenyl-, dihydrochloride 2361-97-2P, Piperazine,

4-(3-methoxy-3-p-tolylpropyl)-2-methyl-1-phenyl-, dihydrochloride

2946-76-1P, Piperazine, 2-methyl-1-phenyl
(preparation of)

(preparation of)

\$53-92-9 CAPLUS

Piperazine, 4-(N-ethoxyphenethyl)-2-methyl-1-phenyl-, dihydrochloride

(7CI, 8CI) (CA INDEX NAME)

<12/04/2007> Erich Leese <12/04/2007>

905-90-8 CAPLUS
Piperaine, 4-(N-ethoxy-p-fluorophenethyl)-2-methyl-1-phenyl-,
dibydrochloride (7CI, 8CI) (CA INDEX NAME)

1168-17-8 CAPLUS
Piperazine, 4-(3-ethoxy-3-phenylpropyl)-2-methyl-1-phenyl-,
dihydrochloride (7CI, 8CI) (CA INDEX NAME)

●2 HC1

· 2281-97-2 CAPLUS Piperazine, 4-(3-methoxy-3-p-tolylpropyl)-2-methyl-1-phenyl-, dhydrochloride (7CI, 8CI) (CA INDEX NAME)

<12/04/2007>

Erich Leese

APPLICATION NO.

DATE

10/513699

L9 ANSWER 117 OF 134 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1965:74269 CAPLUS
DOCUMENT NUMBER: 0: 2:74269
GRIGINAL REPRENCE No: 62:13159h.13160a-d
TITLE: Cyclic diaza compounds
INVENTOR(S): Yost, William L., Margerison, Richard B. INVENTOR(S):
PATENT ASSIGNEE(S):
SOURCE:
DOCUMENT TYPE:
LANGUAGE:
PAMILY ACC. NUM. COUNT:
PATENT INFORMATION: 48 pp. Patent Unavailable

DATE

PATENT 'NO. KIND PR 1378964 19641120 FR 1963-949434 19631003 <--PR 1378964 '19641120 PR 1963-949434 19631003 <-GB 1941086
GB 1941086 GB
PRIORITY APPLIN, INFO.:
US
AB Compda. of the general formula X(CH2)nNR(CH2)mCN, in which X is halogen, m
and n may be 1 or 2, and some or all C atoms may have alkyl or other
groups, are cyclized by reduction with LiAlH4 or similar agents, hydrolysis,
and heating with alkall. A solution of 11.37 g. LiAlH4 in 280 ml.
tetrahydrofuran was added dropwise at 25° to 22.26 g.
PhN(COCH2C1)CHMeCN (I) in 85 ml. tetrahydrofuran. After the initial
reaction subsided the solvent was distilled, and replaced by toluene.
Distillation

PhN(COCH2CI) CHMCCN [I] in 55 ml, tetrahydrofuran. After the initial reaction subsided the solvent was distilled, and replaced by toluene. Illation was continued at such a rate that 500 ml, total distillate was collected in 50 min. and pot temperature was 110° After 6 hrs. addni. heating the mixture was cooled and poured into 15 NaON solution After several hrs. the organic layer was washed and evaporated to dryness. The product was then refluxed in 50 ml. toluene with 8.5 g. Na2CO 2 hrs., the solvent evaporated, and the 2-methyl-1-phenylpiperazine was distilled, bl 115-25°; 4-phenylthiocarbanatem. 158-60° (alc.). Aniline(745 g.) was slowly added at 60-70° to a solution of addition product of 352 g. Acid and 30 g. NaNSO) in 1540 ml. water. The mixture was diluted with 200 ml, water and a solution of 405 g. NaCN in 900 ml. vater was added in 15 min. The mixture was stirred 20 min., cooled to 10° and filtered and N2O added to give N-(1-cyanoethyl)aniline (II), m. 30-2° (alc.). A solution of 18.2 g. II in 87 ml. benzene was slowly added and 800 added to give N-(1-cyanoethyl)aniline (II), m. 30-2° (alc.). A solution of 18.2 g. II in 87 ml. benzene and 12.6 g. NaSCO). The mixture was bodded to 110 ml. solution of 18.1 g. II in 187 ml. benzene was 10 ml. solution and the solution of 18.1 g. II in 187 ml. benzene was 18.5 agueous alc. and cooled to -2° the residuence of 11-25° (benylthiocarbanate m. 163-5° (alc.)), and the following piperazines (substituents given): 2.2-dimethyl-1-phenylpiperazine, bl 110-15° (phenylthiocarbanate m. 163-5° (alc.)), and the following piperazines (substituents given): 2.2-dimethyl-1-phenyl-1, 4-diazacycloheptane, bl 130-2°; 2-methyl-1-phenyl-1,4-diazacycloheptane, bl 130-2°; 2-methyl-1-phenyl-1,4-diazacycloheptane, bl 130-2°; 2-methyl-1-phenyl-1,4-diazacycloheptane, bl 130-2°; 2-methyl-1-phenyl-1,4-diazacycloheptane, bl 130-2°; 2-methyl-1,5-diazacycloheptane, bl 27-5°, (id-lhBr salt m. 215-17° (alc.)), some of these compds, are useful as anthelmintic, germicidal, or addrenolytic agents.

10/513699

●2 HC1

2946-76-1 CAPLUS
Piperazine, 2-methyl-1-phenyl- (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME)

L9 ANSMER 116 OF 134
ACCESSION NUMBER:
D65:8501
ORIGINAL REFERENCE NO:
TITLE:
SUTHOR(3):
CORPORATE SOURCE:
SOURCE:
SOURCE:
SOURCE:
SOURCE:
CAPORATE SOURCE:
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CORPORATE SOURCE:
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CORPORATE SOURCE:
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CORPORATE SOURCE:

SOURCE: Journal of Medicinal Chemistry (1965), 8(3),
2025 and 10 Medicinal Chemistry (1965), 8(3),
2025 and 202

<12/04/2007>

Brich Leese

RL: PREP (Preparation)
(preparation of)
2946-76-1 CAPLUS
Piperazine, 2-methyl-1-phenyl- (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME)

4318-46-1 CAPLUS 1-Piperazinecarboxanilide, 3-methyl-4-phenylthio- (7CI, 8CI) (CA INDEX

L9 ANSWER 118 OF 134 ACCESSION NUMBER: CAPLUS COPYRIGHT 2007 ACS on STN 1965:66601 CAPLUS

1965:66601 CAPLUS
62:166601
62:11833a-d
Substituted piperaxines
de Steven, George, Mull, Robert P.
Ciba Soc.
34 pp.
Patent
Unavailable

ACCESSION NUMBER:
OCUMENT NUMBER:
ORIGINAL REPERENCE NO.:
TITLE:
INVENTOR(S):
PATENT ASSIGNEE(S):
SOURCE:
DOCUMENT TYPE: LANGUAGE:

PAMILY ACC. NUM. COUNT: PATENT INFORMATION:

DATE APPLICATION NO. PATENT NO.

PRICHT NO. And Dotted PR 1964-259909 19640110 <-BE 624229 BE 624239 BE 98641218 FR 1964-959909 19640110 <-BE 624239 BE 624239 BE 1964-1964 BE 1964-1964 BE 1964-1964 BE 19640114 AB 3-Methyl 4-phenyl-1-(2-phenylthioethyl)plperazine di-HCl salt, m. 214-15* (REOH-RE2O), was prepared by refluxing 7.04 g. 2-methyl-1-phenylpiperazine and 4.34 g. PhS(CR)212BE in 75 cc. PhMe 6 hra. similarly were prepared 4-(2-methoxyphenyl)-1-(2-phenylthioethyl)plperazine di-HCl salt, m. 190-3* [PhMe-ECOH), 4-(2-methoxyphenyl)-1-[2-(4-thenylthioethyl)-4-(2-methoxyphenyl)-1] and 1-[2-(2-isopropy)phenylthiolethyl)-4-(2-methoxyphenyl)-1)plperazine di-HCl salt, m. 200-5* (PhMe-ECOH), 4-Phenyl-1-(2-phenylthio-ethyl)piperazine di-HCl salt (1), m.

<12/04/2007>

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IТ

198-9° (EtOH) (free base bo.6 190-200°) was prepared by refluxing 5 g. PhS(CH2)2Br and 4.35 g. 1-phenylpiperazine in 200 cc. BuOH containing 10 drops N2O and 6 g. Na2COJ 92 hrs. I was also prepared by refluxing 7.55 g. PhS(CH2)2NNZ (11), 10.9 g. PhN([CH2)2CJ)2 in 50 cc. MaOH. and excess X2COJ 15 hrs., or similarly using N.N-bis(2-chloro-echyl)-N-(2-phenylthiocthyl) maine (111) and 10 g. PhNNHZ. 2-(4-tert-Butylphenylthiolethyl bromide, m. 176-7°, was prepared by adding 35.6 g. Cl(CH2)2OH to 55 g. 4-tert-butylthiophenol in 132 cc. 10% NaOH, stirring the solution 1 hr. at room temperature, and refluxing the mixture 30 to

Stirring the solution 1 hr. at room temperature, and refluxing the mixture 30 to give 2-(4-tert-butylphenylthio)-ethanol bl2 175-6* which (21 g.) was added dropwise to 10.84 g. PBr3 and 3 g. pyridine at 0* and stirred overnight. Il was prepared by refluxing 46 g. Ph8(CH2)2Br, 44 g.; K phthalinide, and a few crysta. iodine in 80 cc. HCONMHe2 2 hrs., refluxing the crude product 2 hrs. with 20 g. NJH4 in 200 cc. HCONMHe2 2 hrs., refluxing acidifying the solution with HCl, and refluxing 30 min. III was prepared by heating for 16 hrs. in a sealed tube 15.3 g. Ph8(CH2)2RN12 and 9 g. (CH2)20 and adding 23.5 g. of the obtained N.N-bis(2-hydroxyethyl)-N-(2-henylthioethyllamine with cooling to 25 g. PCl5 in 100 cc. dry CHCl3 and refluxing the mixture 2-(2-Isopropy)thio)bethyl bromide. bl2 157-8*. was prepared from 2-isopropylthio)bethyl bromide. bl2 157-8*. was prepared from 2-isopropylthio)bethyl bromide. bl2 three dry the HCP13 and CSySN. The title compds, are antihypertensive and antinflammatory agents.
1039-99-2P. Pjerazine, 2-methyl-1-phenyl-4-{2-(phenylthio)ethyl}-, dihydrochloride
RL: PREP (Preparation) (preparation of) 1039-99-2 CAPLUS
Piperarine, 2-methyl-1-phenyl-4-(2-(phenylthio)ethyl)-, dihydrochloride
(7cl, 8Cl) (CA INDEX NAME)

СH2- СH2- SPh

● 2 HC1

L9 ANSWER 119 OF 114
ACCESSION NUMBER:
DOCUMENT NUMBER:
ORIGINAL REFERENCE NO.:
ITILE:
INVENTOR(S):
PATENT ASSIGNE(S):
SOURCE:
DOCUMENT TYPE:
DOCUMENT TYPE:
LANGUAGE:
LANGUAGE:
LANGUAGE:
LANGUAGE:
LANGUAGE:
CAPPLIS COPPRIGHT 2007 ACS on STN
ACS CAPPLIS
62:66597
CAPPLIS
62:65597
CAPPLIS
62:11831c-h, 11832a-d
N.-Aryl-N'-aralkyldiazacycloaikanes
DE Stevens, George; Mull, Robert P.
CIBA Corp.
14 pp.
Patent
LANGUAGE:
Unavailable

10/513699

1-(2-methylphenyl)piperazine dihydrochloride, 285 g. paraformaldehyde, and 1735 g. 4-methylacetophenome in 7800 ml. RtOH was refluxed 24 hrs. with stirring and cooled to -10° and the precipitate filtered off and washed 3 times with 1000 ml. cold acetone to give 2850 g. 1-(3-(4-methylphenyl))-3-oxopropyl) -4-(12-methylphenyl)piperazine hy-drochloride (IV), m. 209-11°. Reduction of 2660 g. IV with 407 g. RahB4 gave 2530 g. 1-(3-hydroxy-3-(4-methylphenyl)piperazine (V), in, 80-3°. A solution of 2530 g. V in 19 ml. benzene was gassed with Hell to a ph of 2 and treated with 2750 g. Soc12 in 12 ml. benzene, the mixture refluxed 2 hrs., and the remaining SOC12 and benzene were distilled The residue in 12 ml. EtOH was held below 15° while adding 718 g. Na in 23 ml. EtOH and then refluxed 1 hr. The solution was evaporated to 888

mixture refluxed 2 hrs., and the remaining SOC12 and benzene were distilled The residue in 12 ml. ELOH was held below 15° while adding 718 g. Na in 23 ml. ELOH and then refluxed 1 hr. The solution was evaporated to less and the residue dissolved in 80 ml, water and extracted with CNC13 to yield 2700 g. 1-(3-ethoxy-3-(4-methylphenyl)propyl)-4-(2-methylphenyl)piperazine which gave a dihydrochloride m. 165-8°. The Grignard reagent from 76.4 g. 4.-chlorophomo-benzene and 8.16 g. Mg condensed with 48.0 g. 1,2-dichlorodiethyl ether gave 2-(4-chlorophenyl)-2-ethoxyethyl chloride (VI), biz 122-40°. Condensation of VI with aryl piperazines by refluxing 24 hrs. in the presence of Na2CO3 gave I. In this manner were prepared I (n = 1), given in the second Cable. Also prepared R. R1, R2, R3, b.p./mm.. m.p.di-HCl salt, Et., 4-Cl. H, 2-OMe, 190-200*/0.3, 29-31's; Et., 4-Cl. H, H. 9:0-19'.0.3, 203-5°; Et. H. H. 19-70'.0.3, 203-5°; Et. H. H. 128-40°/0.35, 182-5°; Et. H. H. 2-Cl. 200-5°/0.5, 200-3°; Et., H. M. H. 158-50°/0.5, 200-5°; Et., 4-Cl. H, 2-OMe, 179-80°/0.7, 213-17°; Et. H. 128-40°/0.35, 182-5°; Et. H. H. 12-Cl. 4H. 13-10-20°/0.7, 211-13°; Et., 3-Cl. H. 2-OMe, 170-30°/0.7, 213-17°; Et. H. H. 18-50°/0.2, 240-4° Et., 3,-4-Cl. H. H. 180-20°/0.7, 213-17°; Et., 3-Cl. H. H. 180-20°/0.7, 213-17°; Et., 3-Cl. H. H. 180-20°/0.7, 213-17°; Et., 3-Cl. H. H. 180-20°/0.7, 213-17°; Et. H. H. 180-20°/0.7, 213-17°; Et., 3-Cl. H. B. H. 10-20°/0.7, 213-17°; Et., 3-Cl. H. H. 180-20°/0.7, 213-17°; Et. H. H. 180-20°/0.7, 213-17°; Et. H. H. 180-20°/0.7, 213-17°; Et., 3-Cl. H. H. 180-20°/0.7, 213-17°; Et. H. H. 180-20°/0.7, 213-17°; Et., 3-Cl. H. 180-20°/0.7, 213-17°; Et. H. H. 180-20°/0.7, 213-17°;

Erich Leese

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FAMILY ACC. NUM, COUNT: 1 PATENT INFORMATION:

APPLICATION NO. US 1963-315405 US PATENT NO. DATE

<12/04/2007>

Brich Leese

10/513699

(preparation of)
442-26-2 CAPLUS
Piperazine, 4-[3-ethoxy-3-(4-methylphenyl)propyl]-2-methyl-1-phenyl(CA INDEX NAME)

745-59-5 CAPLUS
Piperazine, 4-(f-ethoxy-p-fluorophenethyl)-2-methyl-1-phenyl(7CI, 8CI) (CA INDEX NAME)

Piperazine, 4-(3-ethoxy-3-phenylpropyl)-2-methyl-1-phenyl- (7CI, 8CI) (CA

748-03-8 CAPLUS
Piperazine, 4-(3-isopropoxy-3-p-tolylpropyl)-2-methyl-1-phenyl- (7CI, 8CI)
(CA INDEX NAME)

RN 853-91-8 CAPLUS

Piperazine, 4-(β-ethoxyphenethyl)-2-methyl-1-phenyl- (7CI, 9CI) (CA INDEX NAME)

853-92-9 CAPLUS

Piperazine, 4-(fi-ethoxyphenethyl)-2-methyl-1-phenyl-, dihydrochloride (7CI, 8CI) (CA INDEX NAME)

●2 HC1

905-90-8 CAPLUS
Piperazine, 4-(||-ethoxy-p-fluorophenethyl)-2-methyl-1-phenyl-,
dihydrochloride (7CI, 8CI) (CA INDEX NAME)

●2 HC1

905-91-9 CAPLUS
Piperazine, 4-(3-methoxy-3-p-tolylpropyl)-2-methyl-1-phenyl-,
hydrochloride (7CI, 8CI) (CA INDEX NAME)

<12/04/2007>

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1049-29-2 CAPLUS
Piperasine, 4-(3-methoxy-3-p-tolylpropy1)-2-methyl-1-phenyl- (7CI, 8CI)
(CA INDEX NAME)

1051-75-8 CAPLUS
Piperazine, 4-(3-(p-chlorophenyl)-3-ethoxypropyll-2-methyl-1-phenyl(7CI, 8CI) (CA-INDEX NAME)

1051-76-9 CAPLUS Piperazine, 4-[3-(p-chlorophenyl)-3-ethoxypropyl]-2-methyl-1-phenyl-, dihydrochloride (7CI, 8CI) (CA INDEX NAME)

●2 HC1

Piperazine, 4-(3-ethoxy-3-phenylpropy1)-2-methyl-1-phenyl-, dihydrochloride (7CI, BCI) (CA INDEX NAME)

● HC1

905-92-0 CAPLUS
Piperazine, 4-[3-(p-chlorophenyl)-3-methoxypropyl]-2-methyl-1-phenyl(GCI) (CA INDEX NAME)

907-68-6 CAPLUS
Piperazine, 4-(3-ethoxy-3-p-tolylpropyl)-2-methyl-1-phenyl-,
dihydrochloride (7CI, 8CI) (CA INDEX NAME)

●2 HC1

978-11-0 CAPLUS
Piperazine, 4-13-(p-chlorophenyl)-3-methoxypropyl]-2-methyl-1-phenyl-,
dihydrochloride (70:, 80:) (CA INDEX NAME)

●2 HCl

<12/04/2007>

Erich Leese

10/513699

3792-38-9 CAPLUS Piperazine, 4-(3-isopropoxy-3-p-tolylpropyl)-2-methyl-1-phenyl-, dihydrochloride (7CI, 8CI) (CA INDEX NAME)

●2 HC1

L9 ANSWER 120 OF 134 ACCESSION NUMBER: DOCUMENT NUMBER: ORIGINAL REFERENCE NO.: TITLE:

CAPLUS COPYRIGHT 2007 ACS on STN
1965:43961 CAPLUS
62:43961
62:777776-h
Piperarinoalkyl esters of 9-hydroxyfluorene-9carboxylic acid
Biel. John H.
Colgate-Palmolive Co.
3 pp.
Patent
Unavailable
1 INVENTOR(S):
PATENT ASSIGNEE(S):
SOURCE:
DOCUMENT TYPE:
LANGUAGE:
PAMILY ACC. NUM. COUNT:
PATENT INFORMATION:

<12/04/2007>

19600314 <--PATENT NO. KIND DATE APPLICATION NO. US 1960-14502 US

US 3162637 19641222 US 1960-14502 19600314 <-PRIORITY APPLM. IMPO. 1

IF or diagram(a), see printed CA Issue.

AB The title compds. (I), in which Y is alkylene and R is alkyl or aryl, were made. Thus, a mixture of 21.7 g, Me 3-hydroxy-fluorene-9-carboxylate, 14.2 g. N-methyl-N1-(3-hydroxypropyl)-piperazine, 0.8 g. MeONa, and 250 cc. heptane was refluxed 6 hrs., during which time 5.3 cc. MeOl was collected. The catalyst was then filtered off and the filtrate washed by H2O to yield

13639

33.1 g. I [Y = (CH2)3, R = Me]; di-HCl salt m. 237° (decomposition)
(MeOB). Similarly prepared were I (Y, R, and m.p. of di-HCl salt given):
McCHCH2, Me. 234° (decomposition); McCHCH2, Ph. 235° (decomposition)
(II). These I have ateractic effects and induce mild muscle relaxation.
II is an antispasmodic.
1864-47-7P, Fluorene-9-carboxylic acid, 9-hydroxy-,
3-(4-phenyl-3-propyl-1-piperazinyl)propyl ester 2083-58-IP,
Fluorene-9-carboxylic acid, 9-hydroxy-, 3-(4-phenyl-3-propyl-1-piperazinyl)propyl ester, dihydrochloride
RL, PREP (Preparation)
(preparation of)
1864-47-7 CAPLUS
Fluorene-9-carboxylic acid, 9-hydroxy-, 3-(4-phenyl-3-propyl-1-piperazinyl)propyl ester (7CI, 8CI) (CA INDEX NAME)

2083-58-1 CAPLUS

Fluorene-9-corboxylic acid, 9-hydroxy-, 3-(4-phenyl-3-propyl-1-piperazinyl)propyl ester, dihydrochloride (7CI, 8CI) (CA INDEX NAME)

<12/04/2007>

Erich Leese

10/513699

ascarid infection caused 100% egg reduction in dogs and 91% in cats; in one cat with hookworms the egg reduction was 70%.
745-59-5P. Piperazine. 4-{N-ethoxy-p-fluorophenethyl)-2-methyl-1-phenyl-90-590-6P. Piperazine. 4-{N-ethoxy-p-fluorophenethyl}-2-methyl-1-phenyl-, dihydrochloride
RL: PREP (Preparation)
(preparation of)
745-59-5 CAPLUS
Piperazine, 4-{N-ethoxy-p-fluorophenethyl}-2-methyl-1-phenylSCI) (CA INDEX NAME)

905-90-8 CAPLUS
Piperazine. 4-(fi-ethoxy-p-fluorophenethyl)-2-methyl-1-phenyl-,
dihydrochloride (7CI, 8CI) (CA-INDEX NAME)

●2 HC1

L9 ANSWER 122 OF 134
ACCESSION NUMBER:
DOCUMENT NUMBER:
ORIGINAL REFERENCE NO.:
TITLE:
PATER CAPLUS COPYRIGHT 2007 ACS on STN 1965:22614 CAPLUS 62:2614 62:4018e-9 Medicinal piperszine compounds CIBA-Ltd. 18 pp Patent Unavailable 1

PATENT ASSIGNEE(S):

SOURCE:
DOCUMENT TYPE:
LANGUAGE:
PAMILY ACC. NUM. COUNT:
PATENT INFORMATION:

<12/04/2007>

PATENT NO. KIND DATE APPLICATION NO. MI 6400467 19640724 NI 1964-467 19640122 <-BE 642844 BE FR

PRIORITY APPLM. INFO:
US 19630123

For diagram(a), see printed CA Issue.
AB The title coepds. (I) show antipyretic, antiinflammatory, hypotensive, adrenolytic, and diuretic properties; they are norepinephrine antagonists.

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●2 HC1

L9 ANSMER 121 OF 134 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1965:22615 CAPLUS
DOCUMENT NUMBER: 62:22615 CAPLUS
CRIGINAL REFREENCE NO: 52:2015
TITLE: Plperazine-bithionol anthelmintic cillinghm, James M., Clark, John C.
PATENT ASSIGNEE(8): Dlamond Laboratories, Inc.
SOURCE: 2 pp.
DOCUMENT TYPE: Patent
LAMMINGE: Parent LAMMINGE: Paren

LANGUAGE: Unavailable FAMILY ACC, NUM, CO PATENT INFORMATION: COUNT:

APPLICATION NO. DATE 19641006 PATENT NO. DATE

US 1352041

PRIORITY APPLM. INFO.

BY 19641006 US.1961-11253 19610525 c-
PRIORITY APPLM. INFO.

I FOR diagram(s), see printed CA Issue.

AB Piperasine-bithionol (piperasine-bithionolate) (I), m. 214-15*, having a wider spectrum of activity against parasitc infections in a large variety of animals than either of its precursors or salts is prepared from various ratios of piperasine [III] to, bithionol (III) in acetone solution or precipitated from aqueous alkaline solution by acid. Thus, to 17.2 g. II

or precipitated from aqueous alkaline solution by acid. Thus, to 17.2 g. II anhydrous base in altrophysical scattering and the second was added 36.6 g. III in 250 ml. acctone in 5-ml. increments with mixing; crystals appeared at pH 10.5, and I crystallized at the end of the addition in 27-g. yield after separation and drying. It can be recrystd, from BuOH. In aqueous alkali, I had uv absorption values Bittom, maximum 236 at 327 m; and min. 58 at 285 m;. The L.D.50 (in mice) of I. II citrate, III, and II citrate-III is, resp.: 800, 4000, 3190, 1007 mg./kg. Two cats given to times the normal therapeutic dose of 150 mg./lb. I as an oral suspension showed no adverse effects, and 2 of 1 cats given 10 times the therapeutic dose in capsules showed only fecal softening and very slight tranquilization. I in doses of 150 mg./lb. for

<12/04/2007>

Erich Leese

A mixture of 10.05 g. 1-(2-methoxyphenyl)piperazine, 11.5 g. 2-(4-chlorophenyl)-2-ethoxyethyl chloride (II), and 40.0 g. Na2CO3 in 200 ml. BuON is refluxed 24 hrs. with stirring. After separation of the inorg. material, the filtrate is evaporated and the residue distilled to give I (K - 4-Cl. R2 = Et., R1 = N, Ar = 2-MeOCSHA), bo.3 190-200*, dl-inCl salt m. 229-31* (iso-Prof). II (bl.1 122-40*) is prepared by a Grignard reaction from a.16 g. Mg in 75 ml. Et2O, 76.4 g. 4-ClC6HABr, and 48 g. ClClaCHCloEt. Similarly are prepared the following I (K, R2, R1, Ar, b.p./mm., and m.p. dl-HCl salt liated): 4-Cl, Et. N, Ph. 90-1*/0.3, 182-5*; 3,4-Cl2. Et. N, 2-MeOCSHA, 120-20*/0.7, 182-5*; 3,4-Cl2. Et. N, 2-MeOCSHA, 170-90*/0.7, 191-3* (Et2O, EtON), 4-Cl, Et. N, 2-NeoCSHA, 170-90*/0.7, 191-3* (Et2O, EtON), 3-Cl, Et. N, Ph. 180-200*/0.7, 191-3* (Et2O, EtON), 4-P, Et. 3-Me, Ph. 170-570*/6, 191-3* (EtCON), 4-P, Et. 3-Me, Ph. 170-570*/6, 191-3* (EtCON), 4-P, Et. 3-Me, Ph. 170-570*/6, 191-3* (EtCON), 4-P, E

Piperazina, 4-(B-ethoxy-p-fluorophenethyl)-2-methyl-1-phenyl- (7CI, 8CI) (CA INDEX NAME)

905-90-8 CAPLUS Piperazine, 4-(β -ethoxy-p-fluorophenethyl)-2-methyl-1-phenyl-, dihydrochloride (7cI, 8CI) (CA INDEK NAME)

●2 HCl

L9. ANSWER 123 OF 134 CAPLUS COPYRIGHT 2007 ACS ON STN ACCESSION NUMBER: 1965:15362 CAPLUS
OCCUMENT NUMBER: 62:15362
OKIGINAL REPERENCE NO.: 62:2722F-h TITLE: PATENT ASSIGNEE(8):

Erich Leese

<12/04/2007>

SOURCE: DOCUMENT TYPE: LANGUAGE: 17 pp. Patent Unavailable PAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO. KIND . DATE APPLICATION NO.

Piperazine, 4-(B-ethoxyphenethyl)-2-methyl-1-phenyl-, dihydrochloride (7CI, 8CI) (CA INDEX NAME)

● 2 HC1

853-91-8P, Piperazine, 4-(#-ethoxyphenethyl)-2-methyl-1-phenyl-) 020-51-9P. Piperazine, 4-(#-ethoxyphenethyl)-2-methyl-1-phenyl-, hydrochloride RL: PREP (Preparation) (preparation of 653-91-8 CAPLUS Piperazine, 4-(#-ethoxyphenethyl)-2-methyl-1-phenyl- (7CI, 8CI) (CA INDEX NAME)

<12/04/2007

Erich Leese

853-92-9 CAPLUS Pipernzine, 4-(%-ethoxyphenethyl)-2-methyl-1-phenyl-, dihydrochloride (7CI, 8CI) (CA INDEX NAME)

9 HC1

L9 ANSMER 125 OF 134 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1964;425459 CAPLUS
DOCUMENT NUMBER: 5:25459
OXIGIDIAL REFREENCE NO: 5:25459
OXIGIDIAL REFREENCE NO: 61:4373f-1,4374a
Ouaternary salts of 5-(4-alkylpiperazino)dihenzo[a.d]c
ycloheptadienes
INVENTOR(S): Rhone-Poulenc, S. A.
SOURCE: 15 pp.
DOCUMENT TYPE: Patent
LANGUAGE: Unavailable

LANGUAGE: FAMILY ACC, NUM. COUNT: Unavailable

PATENT INPORMATION:				
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
BE 633454		19631210	BE	<
DE 1197691			DE	
FR 1403619			PR	
FR CAM61			PR	
GB 1041536 '			GB	
NL 294074			NL	
US 3257404		19660621	US 1963-285859	19630606 <
PRIORITY APPLN. INFO.:			PR	19620615
GI For diagram(s), see	printe	d CA Issue.		

For diagram(s), see printed CA Issue.

5.(4-Alkylpipperazino)dibenzo[a,d]cycloheptadienes (I) were converted to quaternary salts (II) with Me2804. These compds, showed spasmolytic. ganglioplegic, and atrophicia carcivities more pronounced than the corresponding I. 5-Chlorodibenzo[a,d]cycloheptadiene (Mychajiyszyn and Protiva, CA 54, 8768a) (9.14 g.) in 150 cc. anhydrous PhMe was refluxed 4 h. with 8.00 g. 1-methylpiperazine in 30 cc. PhMe, the reaction mixture treated with 120 cc. water, 80 cc. Et20, and 5 cc. caqueous NaOH (d. 1,33), the water layer washed with 100 cc. Et20, the combined organic layers extracted 3 times with a total 440 cc. 2N NAOH, the acid exts. washed with 150 cc. Et20 and basified with 50 cc. aqueous NAOH (d. 1,33) and 50 cc. water, the resulting oil extracted 3 times with a total 400 cc. Et20, and the combined Et20 exts. dried over K2CO3 and evaporated to yield 6.45 g. I (R = Me) (III), m.

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3020-53-9 CAPLUS
Piperszine, 4-{|}3-ethoxyphenethyl}-2-methyl-1-phenyl-,
monohydrochloride (8CI) (CA INDEX NAME)

● HC1

L9 ANSWER 124 OF 134 CAPLUS COPYRIGHT 2007 AC8 on 6TN
ACCESSION NUMBER: 1965:15361 CAPLUS
ORIGINAL REPREBENCE NO: 62:215361
TITLE: Disopropylamine orotate
HANDWARDE (S): 50URCE: (Kyorin Pharmaceutical Co., Ltd.
1 p.
DOCUMENT TYPE: PAECH
LANGUAGE. PAECH
UNAWINADE. Unawilable

LANGUAGE: Unavailable

FAMILY ACC. NUM. COUNT: FATENT INFORMATION:

DATE JP 39008847 B4 19640528 JP 19610304
PRIORITY APPLM. INFO:
AB A solution of 4 g. orotic acid in 20 cc. H2O is stirred with 2.59 g.
disopropylamine and evaporated in vacuo at below 50° to give 5.7 g.
title compound, plates, m. 210-15°, useful as a H2O-soluble orotic acid
derivative
IT 851-92-9
(Derived from data in the 7th Collective Formula Index (1962-1966))

-92-9 (Derived from data in the 7th Collective Formula Index (1962-1966))

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111° (iso-PrOH). To 9.9 g, III in 200 cc. anhydrous Me2CO was added dropwise in 10 min. 4.3 g. Me2SO4 in 10 cc. anhydrous Me2CO, the temperature of dropwise in 10 min. 4.3 g. Mc2SO4 in 10 cc. annyarous Mc2CO, the temperaturs 10 st. 10

L9 ANSMER 126 OF 114 CAPLÚS COPYRIGHT 2007 ACS ON STN
ACCESSION NUMBER: 1964:425458 CAPLUS
OCIGINAL REFERENCE NO: 51:4373b-f'
TITLE: 2-(4-Phenylpiperazino)-1-phenylethyl acetates
INVENTOR(S): 5hapiro. Seymour L., Preedman, Louis, Soloway, Harold
US. Vitamin 4 Pharmaceutical Corp.
4 pp.
DOCUMENT TYPE: Patent LANGUAGE: Unavailable
FAMILIA ACC. NUM. COUNT: 1
PATENT INFORMATION: 1

SOURCE: DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM, COUNT: PATENT INFORMATION:

APPLICATION NO. DATE . PATENT NO. KIND DATE US 3135756 19640602 19610517 <--

US 3135786 19640602 US 198610517 --PRIORITY APPLM. INFO.; US 19610517 --GI For diagram(s), see printed CA Issue.
AB The title eaters are prepared and can be used as bronchodilators. Thus, a solution of 17.8 g. 1-phenylpiperaxine in 35 ml. iso-PrOH is added to a mixture of 28 g. p-c1C614CCCH2Br in 65 ml. iso-PrOH and the mixture refluxed 15 min. to give 51% 1-(p-chlorophenacyl)-4-phenylpiperaxine-HBr (I.HBr), m. 242-4* (decomposition) (MoOH), which is treated with NaOH to give I, m. 132-3* (EtOH). A mixture of 1.9 g. I in 100 ml. EtOH is treated with 0.65 g. NaBH4 to give 58% 2-(4-phenylpiperaxino)-1-(p-chlorophenyl)ethanol (II), m. 154-5* (EtOH). A mixture of 3.2 g. II,

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20 g. Ac20, and 25 ml. MeCN is refluxed 9 hrs. to give 57% 2-(4-phenylpiperazino)-1-(p-chlorophenyl)ethyl acetate, m. 109-10* (hexane). Similarly prepared are the following III (X = CHOAc)(R, R1, and m.p. or b.p./mm. given): H, H (IV), 113-15*; (X = CHOAC)(R, R1, and m.p. or b.p./mm. given): H, H (IV), 113-15*; (X = CHOACR): H, H, 132-4*/0.005; (X = CH202CP)* H, H, H, 186-50*/0.05; (X = CH202CP)* H, H, H, 186-50*/0.05; (X = CH02CNHE)* H, H, 126-7* (MeCN); H, p-C1, 19-10*, H, p-Br, 118-19*; H, 2,4-Me2, 100-19*, o-Me, H, H, p-Br, 118-19*; H, 2,4-Me2, 100-19*, o-Me, H, 99-10**, m-Me, H, 109-10*, p-Me, H, 88-9*; o-Cl, H, 90-1**, m-Cl, H, 95-7*, p-Cl, H, 123-4*; o-MeO, H, 47-8*. Also prepared is the analog of IV derived from 1-phenyl-2-methylpiperazine (IVa), m. 68*. Also prepared are the following III (X = CHOH) (R, R1, and m.p. or b.p./mm. given): H, H, W(H), 119*; HCl sale m. 184-5* (ECOH); o-Me, H, 123-30* m-Cl, H, 97*; p-Cl, H, 113-14*; o-MeO, H, 123-30* m-Cl, H, 97*; p-Cl, H, 113-14*; o-MeO, H, 18-10*; o-Cl, H, 129-30* m-Cl, H, 97*; p-Cl, H, 113-14*; o-MeO, H, 180 prepared is the analog of V derived from IVa, m. 190-10*, Also prepared are the following III (X = CO, R = H) (R1 and m.p., given): p-Fr, 150*; H, 24-44*; H, p-Cl, 154-5*; H, p-Ph, 180* (MeCN). Also prepared are the following III (X = CO, R = H) (R1 and m.p., given): p-Fr, 159*; 150*;

(MeCN). 3-Methyl-a, 4-diphenyl-97018-29-6P, 1-Piperazineethanol, 3-methyl-a, 4-diphenyl-97018-29-6P, 1-Piperazineethanol, 3-methyl-a, 4-diphenyl-, acetate (ester) RL: PREP (Preparation)

(preparation of)
94437-01-1 CAPIUS
1-Piperazineethanol, 3-methyl-0,4-diphenyl- (7CI) (CA INDEX NAME)

97018-29-6 CAPLUS 1-Piperazineethanol, 3-methyl-a,4-diphenyl-, acetate (7CI) (CA

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SOURCE

L9 ANSWER 128 OF 1)4 CAPLUS COPYRIGHT 2007 ACS ON STN
ACCESSION INUMEER: 1964:52796 CAPLUS
OCIONAL REPERENCE NO: 60:52796
ORIGINAL REPERENCE NO: 60:92939-N,9294a-N,9295a-N,9296a-D
IIITLE:
PATENT ASSIGNEE(S): Sterling Drug Inc.
41 no 41 pp. Patent

SOURCE: DOCUMENT TYPE: LANGUAGE: PAMILY ACC, NUM, COUNT: PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO.

10/513699

L9 ANSWER 127 OF 134 CAPLUS COPYRIGHT 2007 AC8 on STN
ACCESSION NUMBER: 1564:52797 CAPLUS
COCUMENT NUMBER: 60:52797
OKIGINAL REFERENCE NO.: 60:3296b-d
Aninochloro heterocyclic compds.
INVENTOR(8): Heinz
Weidinger, Hans, Wellenreuther, Gerhard, Eilingsfeld,
Heinz

PATENT ASSIGNEE (S) : Badische Anilin- & Soda-Pabrik A.-G.

DOCUMENT TYPE: LANGUAGE: Unavailable

PAMILY ACC. NUM. COUNT; PATENT INFORMATION:

PATENT NO. DATE PR 1342841 19631115 PR 1962-909333 19620933 <-DE 172266 DE
GB 1011984 OB
PRIORITY APPLM. INFO.; DE 19610913
GI For diagram(s), see printed CA Issue.
AB The new compose were used as intermediates in the manufacture of dyes. A 19620913 ---

containing 100 parts by weight 2-(4-nitrophenyl)-4-chloroquinazoline suspended

containing 100 parts by weight 2-(4-nitrophenyl)-4-chloroquinazoline suspende 100 parts by volume Me2CO, 10 parts Raney Ni, and 3 parts by volume Pr3N was hydrogenated at normal pressure at 20-30° to yield 83 parts I (R = H, RI = p-C6H4NI2). Similarly prepared were 85 parts I (R = H, RI = m-C6H4NI2) from 100 parts 2-(3-nitrophenyl)-4-chloroquinazoline, and 85 parts I (R = NN2, RI = Ph) from 100 parts 2-phonyl-4-chloro-6-nitroquinazoline. A labo prepared were the following II (R and RI given); morpholino, m-C6H4NI2; morpholino, m-C6H4NI2; morpholino, m-C6H4NI2; morpholino, m-C6H4NI2; morpholino, p-H2NC6H4NH; morpholino, p-Q2NC6H4NH, 197-9°; morpholino, p-H2NC6H4NH; morpholino, p-Q2NC6H4NH; 255-7°.
94961-31-6
(Derived from data in the 7th Collective Formula Index (1962-1966)) 94961-31-6 CAPLUS
Indole, 3-(2-(3-methyl-4-phenyl-1-piperazinyl)ethyl)- (7CI) (CA INDEX NAME)

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120 ml. ACOET and 25 ml. ACOH, and the solid collected, to give 41.5 g.
171 (R1 = R3 = R4 = H, R2 = o-toly1) (X). Similarly prepared were these III
(R3 = R4 = H, R1, R2, and m.p. given): H, Me. --, H, HOCHIZCH2, --, H,
m-toly1, --, H, 2-MCCOGH4, --, H, 4-MCCOGH4, 243-55; H,
3.4-CLMCCGH3, 211-14*, 6-McO, Ph. 205-9*, 6-McO, o-toly1,
247-50*, 6-McO, a-toly1, 205-8*, 6-McO, p-toly1,
136-8*, 6-McO, 2-MCCOGH4, 246-8*, 6-McO, 4-MCCOGH4,
205-10*, 5-PhCH3O, p-toly1, 148-55*, 5-PhCH3O, PhCH3CCH2,
131-13*, 56-CCH2O21), Ph. 267-9*, 5.6-(CH3O2), o-toly1,
214.6-15.8*, 5.6-(CH2O2), Ph. 267-9*, 5.6-(CH3O2), o-toly1,
214.6-15.8*, 5.6-(CH2O2), Ph. 267-9*, 5.6-(CH3O2), o-toly1,
214.6-15.8*, 5.6-(CH2O2), m-toly1, 212-16*, 5.6-(CH2O2),
p-toly1, 236-4-78.4*, 5.6-(CH2O2), 2-MCCOGH2, 205-9*,
5.6-(McO)2, Ph. 256.8-8.8*, 5.6-(McO)2, 0-toly1, 211-16*,
5.6-(McO)2, m-toly1, 231-8*, 5.6-(McO)2, 0-toly1, 211-16*,
24-3-3*, 4-MCO, 2h. -5-McO, 3.4-MCCGH4, 234.4-6.4*,
5.6-(McO)2, 4-MCCGH4, 228-36*, 5.6-(McO)2, 4-MCSCGH4,
218-22*, 5.6-(ECO)2, Ph. 180.0-1.0*, H, 2-pyrldy1,
242-3*, 4-MCO, 2h. -5-McO, 1-CLCGH4, 110-10*, H, 2-pyrldy1,
242-3*, 4-MCO, 2h. -5-McO, 1-CLCGH4, 110-10*, H, 2-pyrldy1,
210.2-11.8*, 5-McD, 3-CLCGCH4, 110-10*, M. 2-MCCGH3,
211-11*, 5-McD, 5-MCO, 1-CLCGH4, 110-10*, M. 2-MCCGH3,
211-11*, 5-McD, 5-MCO, 1-CLCGH4, 110-10*, M. 2-MCCGH3,
212-2*, 2*, 5-McD, 3-MCCGH4, 110-10*, M. 2-MCCGH3,
215-18*, 6-McO, 5-2-CL(McO), Ph. 172-5-8.8*,
5-MCCH2, 2-BCCGH4, 110-3*, 5-MCO, 2-MCCGH3,
215-18*, 6-McO, 5-CCC(McO), Ph. 215-22*, 5-MCO, 2-MCCGH3,
215-18*, 6-McO, 2-ECCGH4, 136-3*, 5-MCO, 2-MCCGH3,
215-18*, 6-McO, 2-ECCGH4, 136-3*, 5-MCO, 2-MCCGH3,
215-18*, 6-McO, 2-ECCGH4, 135-3*, 5-MCO, 2-MCCGH4, 136-6*, 5-MCO,
2-BUCCGH4, 164-75*, 5-MCCCC, 2-MCCGH4, 136-6*, 5-MCO,
2-BUCCGH4, 164-75*, 5-MCCGH4, 135-3*, 5-MCCGH4, 136-6*, 140-0*, 14

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o-colyl, -- (HCl salt m. 218.4-23.4°); 5.6-(MeO)2, m-tolyl, 118.4-19.6°; 5.6-(MeO)2, p-tolyl, 137.8-9.2°; 5.6-(MeO)2, 2-MeOCGH4, 116.0-16.6°; 5.6-(MeO)2, 3-MeOCGH4, 123.0-4.0°; 5.6-(MeO)2, 4-MeOCGH4, 158.8-6.4°, 5.6-(MeO)2, 4-MeOCGH4, 158.0-6.4°, 5.6-(MeO)2, 4-MeOCGH4, 158.0-6.4°, 5.6-(MeO)2, 4-MeOCGH4, 158.0-6.4°, 5.6-(MeO)2, 4-MeOCGH4, 158.0-6.4°, 7.6-(MeO), Ph. 172.2-8.2°; 5-MeO, Ph. 147.4-50.0°; 7-MeO, Ph. 132.0-5.2°; H. 2-pyridyl, -- (HCl salt m. 232.2-4.4°), 4-MeO, Ph. 172.2-8.2°; 5-MeO, Ph. 147.4-50.0°; 7-MeO, Ph. 122.0-5.2°; 6-MeO, 2-CICGH4, 125.2-8.8°; 6-MeO, 3-CICGH4, 103.6-4.4°; 6-MeO, 3-MeOCGH4, 142.0-4.6°; 6-MeO, 2-CICGH4, 103.6-4.4°; 6-MeO, 3-MeOCGH4, 142.0-4.6°; 6-MeO, 2-CICGH4, 103.6-4.4°; 6-MeO, 3-MeOCGH4, 120.2-8.8°; 6-MeO, 12.5-pyridyl -- (HCl salt m. 121.8-8.6°) 5.6-(MeO12, PhCH2 (XI), 113-14.4°, 5.6-ECO(MeO), Ph. 129.2-30.6°; 5.6-(MeO12, 2-pyridyl -- (HCl salt m. 121.8-9.6°) 5.6-(MeO12, 2-pyridyl -- (HCl salt m. 121.8-9.6°) 5.6-(MeO12, 2-Pyridyl 1- (HCl salt m. 121.8-9.6°) 5.6-(MeO12, 2-MeSCSH4, 116-17.8°, Also made were these 1 (n - 2; R1, R2, R3, R4, and m.p. given): H. Ph. Me, H. 154.2-5.6°; 5.6-(MeO12, 2-MeSCSH4, 116-17.8°, Also made were these 1 (n - 2; R1, R2, R3, R4, and m.p. given): H. Ph. Me, H. 154.2-5.6°; 5.6-(MeO12, 2-MeSCGH4, Me, H. -- (di-HCl salt m. 210.2-3.8°); 5.6-(MeO12, 2-MeSCGH4, Me, H. -- (di-HCl salt m. 210.2-3.8°); 5.6-(MeO12, 3-MeSCGH4, Me, H. -- (di-HCl salt m. 210.2-3.8°); 5.6-(MeO12, 3-MeSCGH4, Me, H. -- (di-HCl salt m. 210.2-3.8°); 5.6-(MeO12, 3-MeSCGH4, Me, H. -- (di-HCl salt m. 210.2-3.8°); 5.6-(MeO12, 3-MeSCGH4, Me, H. -- (di-HCl salt m. 210.2-3.8°); 5.6-(MeO12, 3-MeSCGH4, Me, H. -- (di-HCl salt m. 210.2-3.8°); 5.6-(MeSCG)2, Me, Me, H. 111.6-6.2-8°, 6-(MeO12, 2-MeSCGH4, Me, H. -- (di-HCl salt m. 210.2-3.8°); 5.6-(M

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APPLICATION NO.

Erich Leese

DATE

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L9 ANSWER 129 OP 134 CAPLUS COPYRIGHT 2007 ACS ON STN
ACCESSION NUMBER: 1964:31020 CAPLUS
DOCUMENT NUMBER: 60:31020
ORIGINAL REFERENCE NO: 60:5521f.h.5522a.h.5523a
NTITLE: NP. Nemoro (S): Maxwell, Donald R.; Wragg, William R.
HOVENTOR (S): Maxwell, Donald R.; Wragg, William R.
SOURCE: Maxwell, Donald R.; Wragg, William R.
12 pp.
DOCUMENT TYPE: Patent
LANGUAGE: Unavilable

PATENT NO. KIND DATE GB 1959-9836 19631204 19590320 <--

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and the mixture kept 1.7 hrs. at room temperature to yield 5.4 g. V(R1, R2 = R3 = Ph, n = 1), m. 179.4-81.6*. Similarly prepared were these V (R3 = R3 = Ph, n = 1), m. 179.4-81.6*. Similarly prepared were these V (R3 = R4 R1, R2, n, and m.p. glven): H. Ph. 2, 136.2-7.4*, N. 3-MeoC6H4, 2. 173.0-6.0*, N. Ph. 3, --; R. --MeoC6H4, 3, 129-32*, R, 3-MeoC6H4, 3, --; 8-MeoC6H4, 3, --; 8-MeoC6H4, 3, 129-32*, R, 3-MeoC6H4, 3, --; 8-MeoC9, Ph. 2, 169-72*, 6-MeoC, 2-MeoC6H4, 2, 124.8-00.2, 3-C1C6H4, 1, 185-8.5*, 5.6-(MeOC2), Ph. 2, 178-80*, 5.6-(MeO)2, 2-C1C6H4, 1, 185-8.5*, 5.6-(MeO)2, 2-MeoC6H4, 2, 124.8-7.4*, 5.6-(MeO)2, Ph. 2, 120.5-2.0*, 5.6-(MeO)2, 3-MeoC6H4, 2, --. Also obtained was V (R1 = 5.6-(MeO)2, R2 = Ph, R3 = M8, n = 2). Also made was 1-(3-(1-indoly)1)propionyl)-4-phenylpiperazine, an old and 1-(3-(2-methyl-5,-6-dimethoxy-3-indoly)1propionyl)-4-phenylpiperazine, an old and 1-(3-(2-methyl-5,-6-dimethoxy-3-indoly)1propionyl)-4-phenylpiperazine, An old and 1-(3-(2-methyl-5,-6-dimethoxy-3-indoly)1propionyl)-4-phenylpiperazine, By raduction of these V by LiAlH* in VIII were prepared these I (R3 = R4 = N; R1, R2, n, and m.p. given): N. Ph. 2-C1C6H4, 3, 186.3-2.8*, N. 0-tolyl, 3, 192.4-4.2* H, 2-MeoC6H4, 3, 156.3-2.2*, N. 0-tolyl, 3, 192.4-4.2* H, 2-MeoC6H4, 3, 156.3-2.2*, N. 0-tolyl, 3, 192.4-4.2* H, 2-MeoC6H4, 3, 150.0-3.2*, N. 184.4-00.8* H, 183.2-5.0*, S.6-(HeO)2, Ph. 3, 184.6-06.8* H, 183.2-5.0*, S.6-(HeO)2, Ph. 3, 184.6-06.8* H, 183.2-5.0*, S.6-(HeO)2, Ph. 3, 184.6-4.2*, S.6-(MeO)2, Ph. 3, 194.6-4.2*, S.6-(MeO)2, Ph. 3, 194 and the mixture kept 1.7 hrs. at room temperature to yield 5.4 g. V(R1, R2 -

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O-Cl), m. 113-14*. IA (R = p-H2NCONNCGH4CH2CH2, R1 = H), m. 315-18*, was obtained in 42% yield by refluxing an aqueous solution of NacNC and 11. Refluxing p-nitrostyrene bromchydrin and I in toluene gave 57% d-I:a fR = p-02NCGH4CH(GNICH2, R1 = H), m. 167-8*, reduced catalytically to 80% the amino analog, m. 144-5*. I and p-McO3SHCHCH2CH2RF, m. 104-5*, from McO3SCI and p-aminophenethyl browide, was refluxed to give 63% Ia (R = p-McO3SHNCGH4CH2CH2, R1 = H), m. 153-5*. III in tetrahydrofuran was added to LiAlH4, and the mixture refluxed to give 83% Ia (R = p-McNGGH4CH2CH2R, m. 107-11*, from p-H2NCGH4CH2CH2BF and trifluoroacetic anhydride, gave 40% Ia (R = p-PFCCHMCH6H4CH2CH2BF and trifluoroacetic anhydride, gave 40% Ia (R = p-PFCCHMCH6H4CH2CH2BF and trifluoroacetic anhydride, gave 40% Ia (R = p-PFCCHMCH6H4CH2CH2BF and trifluoroacetic anhydride, gave 40% Ia (R = p-PFCCHMCH6H4CH2CH2R) and H20 distilled to give 30% Hp-fluorophenylpiperasine, bol. 118-23*, which was converted into Ia (R = p-03NCGH4CH2CH2, R1 = p-p), m. 127-9*. This, when hydrogenated, gave 57% the amino analog, HCl salt m. 280-4*. Prepared similarly were 47% N-mcfluorophenylpiperaxine-HBR. m. 232-5*. \$4 Ia (R = p-02NCGH4CH2CH2, R1 = p-02NCSH4CH2CH2, R1 = m-P), m. 118-20*, and 62% the p-H2N analog as HCl salt m. 282-5*. \$2 Khylemo oxide was treated with m-anisidine to the substantial control of the substantial control of the p-main analog and trifluxed gave 54% Ia (R = p-02NCSH4CH2CH2, R1 = m-H0), m. 118-20*, and 62% the p-H2N analog as HCl salt, m. 255-2*. \$8 kmilarly prepared were 77% N. N-bis(h-chloroethyl)-o-fluoroaniline, 62% the p-H2N analog as HCl salt, m. 255-2*. \$8 kmilarly prepared were 77% N. N-bis(h-chloroethyl)-o-fluoroaniline, 62% Ia (R = p-02NCGH4CH2CH2, R1 = m-H1), m. 236-41*, Ia (R = p-02NCGH4CH2CH2, R1 = m-H1), m. 236-41*, Ia (R = p-02NCGH4CH2CH2, R1 = m-H1), m. 236-41*, Ia (R = p-02NCGH4CH2CH2, R1 = m-H1), m. 236-71*, 36% Ia (R = p-02NCGH4CH2CH2, R1 = m-H1), m. 256-79*, 36% Ia (R = p-02NCGH4CH2CH2, R1 = 0.40*, m. 115-17*, 56% Ia (R =

<12/04/2007> Erich Leese 138 In (R * p-AcMiC6H4CO(CH2)), R1 * H), m. 172-4*, 63*
4.-(m-nitro-p-fluorophenyl)-4-oxobutyl chloride, m. 63-4*, Ia [R *
4.3-F(R2N)C6H3CO(CH2)), R1 * H], m. 110-12*, 16* Ia [R *
4.3-F(R2N)C6H3CO(CH2)), R1 * H], m. 147-50*, 76*,
d1-N([H-hydroxyethyl)-N-(H-hydroxypropyl)aniline, b0.15
135-42* 26*, d1-1-[2-(p-nitrophenyl)ethyl]-2-methyl-4phenylpiperazine*, m. 82-4*, and 75* d1-1-[2-(p-aminophenyl)ethyl]2-methyl-4-phenylpiperazine*, d1. m. 247-50*. These compds. had
pharmacological and psychotropic properties.
94915-72-77, Piperazine, 2-methyl-4-(p-nitrophenethyl)-1-phenyl100175-11-9P, Piperazine, 4-(p-aminophenethyl)-2-methyl-1-phenylhydrochloride
RL: PREP (Preparation)
(preparation of)
94515-72-7 CAPLUS
Piperazine, 2-methyl-4-(p-nitrophenethyl)-1-phenyl(7CI) (CA INDEX NAME)

100175-11-9 CAPLUS Piperazine, 4-(p-aminophenethyl)-2-methyl-1-phenyl-, hydrochloride (7CI) (CA IMDEX NAME)

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| 1389 | 4-ClC6H4. Et, H, Ph, 168*/0.1, 208*, 4-McC6H4, Et, H, 2-pyrigyl, 162-3*/0.25, - (triRCl salt m. 194-5*) | 442-36-2P, Piperazine, 4-(3-ethoxy-3-p-tolylpropyl)-2-methyl-1-phenyl- 745-60-8P, Piperazine, 4-(3-ethoxy-3-p-tolylpropyl)-2-methyl-1-phenyl- 748-03-8P, Piperazine, 4-(3-isopropoxy-3-p-tolylpropyl)-2-methyl-1-phenyl- 748-03-8P, Piperazine, 4-(3-isopropoxy-3-p-tolylpropyl)-2-methyl-1-phenyl- 950-92-0P, Piperazine, 4-(3-(p-chlorophenyl)-3-methoxyropyll-2-methyl-1-phenyl- 907-68-6P, Piperazine, 4-(3-(p-chlorophenyl)-3-methoxyropyll-2-methyl-1-phenyl- 1051-75-8P, Piperazine, 4-(3-(p-chlorophenyl)-3-ethoxyropyll-2-methyl-1-phenyl- 1051-76-8P, Piperazine, 4-(3-(p-chlorophenyl)-3-ethoxyropyll-2-methyl-1-phenyl- 1051-69P, Piperazine, 4-(3-(p-chlorophenyl-3-ethoxyropyll-2-methyl-1-phenyl- 1051-76-9P, Piperazine, 4-(3-(p-chlorophenyl-3-ethoxyropyll-2-methyl-1-phenyl- 1051-76-9P, Piperazine, 4-(3-(p-chlorophenyl-3-phenyl-3-ethoxyropyll-2-methyl-1-phenyl-, dihydrochloride 1168-17-8P, Piperazine, 4-(3-isopropoxy-3-p-tolylpropyl)-2-methyl-1-phenyl-, dihydrochloride
RL: PREP (Preparation) (preparation of) (preparation of) (422-62-2 CAPLUS Piperazine, 4-(3-ethoxy-3-(4-methylphenyl)propyl-2-methyl-1-phenyl-Piperazine, 4-[3-ethoxy-3-(4-methylphenyllpropyl]-2-methyl-1-phenyl(CA INDEX NAME)

. - СН— СН2— СН2

745-60-8 CAPLUS 4-(3-ethoxy-3-phenylpropyl)-2-methyl-1-phenyl- (7CI, 8CI) (CA Piperazine, INDEX NAME)

748-03-8 CAPLUS
Piperazine, 4-(3-isopropoxy-3-p-tolylpropyl)-2-methyl-1-phenyl(7CI, 8CI)
(CA INDEX NAME)

Erich Leese

10/513699

• x HCl

PATENT NO.

L9 ANSWER 130 OF 134 ACCESSION NUMBER: DOCUMENT, NUMBER: CAPLUS COPYRIGHT 2007 ACS ON STN 1964:9840 CAPLUS 60:9840 60:1774f-h ORIGINAL REFERENCE NO. : Piperazines TITLE:
INVENTOR(S);
PATENT ASSIGNEE(S);
SOURCE;
DOCUMENT TYPE:
LANGUAGE;
PAMILY ACC. NUM. COUNT;
PATENT INFORMATION; Piperazines Stevens, Ge CIBA Ltd. 31 pp. Patent Unavailable George de; Mull, Robert P.

DATE

PATENT NO. KIND DATE APPLICATION NO. DATE

BE 615259 19620919 BE <-FR 1312560 0B

PRIORITY APPLIN. INFO.:

OB 19610120

IFOR diagram(8). See printed CA Issue.

AB The title compds. (I) and their salts are valuable pharmacouticals, especially vasodiators and diagnostic agents of low toxicity. They have adrenolytic properties. 2-Methyl-1-phenylpiperazine (8.8 g.) was dissolved in 50 cc.

PIME, 2.4 g. 533 suspension of Nail in mineral oil added, the mixture refluxed 2 hrs.. 11.6 g. 5-ethoxy-3-(4-methylphenyl)propyl chloride added, the mixture refluxed overnight and filtered, and the filtrate coaporated in vacuo and distilled to give I (Ar = 4-MecCH4, R = Et, RI = Me, X = Phl, bo.2 182-4*, di-HCl salt m. 190-2* (ELOH). Similarly, the following I were prepared (Ar, R, RI, X, b.p./mm., and m.p. of di-HCl salt given): Ph. Et. Me, Ph. 16-70-70-07.5 194*, 4-CICCH4, Et.

Me, Ph. 210-15*(0.27, 174-6*, 4-CICCH4, Me, Ph, 1708*0-05, 184*, 4-MecCH4, inc-Pr, Me, Ph, 16-54*/0.04 169*, Ph, Et. H, Ph. 160*/0.15, 202-3* (EtOH-Et2O); 4-CICCH4, Me, H, Ph, 178-80*/0.1,212-APPLICATION NO.
BE
PR
OB
US KIND

<12/04/2007>

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RN CN CAPLUS

Piperazine, 4-[3-(p-chlorophenyl)-3-methoxypropyl]-2-methyl-1-phenyl-(8CI) (CA INDEX NAME)

907-68-6 CAPLUS
Piperazine, 4-(3-ethoxy-3-p-tolylpropyl)-2-mathyl-1-phenyl-,
dihydrochloride (7CI, 8CI) (CA INDEX NAME)

●2 HC1

978-11-0 CAPLUS
Piperazine, 4-[3-(p-chlorophenyl)-3-methoxypropyl]-3-methyl-1-phenyl-,
dihydrochloride (7CI, 8CI) (CA INDEX NAME)

●2 HC1 .

1051-75-8 CAPLUS
Plperazine, 4-(3-(p-chlorophenyl)-3-ethoxypropyl)-2-methyl-1-phenyl(7CI, 6CI) (CA INDEX NAME)

1051-76-9 CAPLUS
Piperazine, 4-[3-(p-chlorophenyl)-3-ethoxypropyl]-2-methyl-1-phenyl-,
dihydrochloride (7CI, 8CI) (CA 1MDEX NAME)

1168-17-8 CAPLUS
Piperazine, 4-(3-ethoxy-3-phenylpropyl)-2-methyl-1-phenyl-,
dihydrochloride (7CI, 8CI) (CA INDEX NAME)

●2 HC1

3792-38-9 CAPLUS Piperazine, 4-(3-isopropoxy-3-p-tolylpropyl)-2-methyl-1-phenyl-, dibydrochloride (7CI, 8CI) (CA INDEX NAME)

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97018-75-2 CAPLUS Piperazine, 1-phenyl-2-[2-(4-pyridyl)ethyl]- (7CI) (CA INDEX NAME)

L9 ANSWER 132 OF 134 CAPLUS COPYRIGHT 2007 ACS ON STN ACCESSION NUMBER: 1963:6735 CAPLUS DOCUMENT NUMBER: 58:6735 ORIGINAL REFERENCE NO.: 58:1086c-e

TITLE: PATENT ASSIGNEE(S): SOURCE: DOCUMENT TYPE: LANGUAGE:

ps:lussc-e Two-component diazotype layers Kalle A.-G. 9 pp. Patent Unavailable

PAMILY ACC. NUM. COUNT: PATENT INFORMATION:

10/513699

●2 HC1

L9 ANSWER 131 OF 134 ACCESSION NUMBER: DOCUMENT NUMBER: ORIGINAL REPERENCE NO.: CAPLUS COPYRIGHT 2007 ACS on STN 1963:462412 CAPLUS 59:62412

59:62412
59:11521a-c
N-Aryl-N'-(2-pyridylethyl)piperazines
Boissier, Jacques R., Ratouis, Roger
Societe Industrielle pour la Fabrication des
Antibioriques (S.I.F.A.)
11 pp.
Patent
Unavailable 1 TITLE: INVENTOR(S): PATENT ASSIGNEE(S):

SOURCE: DOCUMENT TYPE: LANGUAGE: PAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO. APPLICATION NO. KIND DATE DATE

PATENT NO. KIND DATE APPLICATION NO. DATE

PRINTY APPLN. INFO:

ORDINER SOURCE(S):

MARPAT 59:62412

OB 19610317

AB N-Arylpiperazines are treated with vinylpyridines in the presence of hydroquinone or tert-butyl-pyrocatechol (I) to give the title compds. which can be used in the treatment of hypertension. Thus, a mixture of 10.5 g. 2-vinyl-pyridine, 18 g. N-phenylpiperazine, and 10 mg, 1 is heated at 150° for 2 hrs., cooled, the unreacted starting materials distilled under 0.55-0.2 mm. at a hast temperature of 180-200°, and the residue re-crystallized in 400 ml. petr. ether to give 14 g.

N-12-(2-Opyridyl)-ethyl]-N'
phenylpiperazine, m, 56°, 534 yield. Similarly prepared are (m.p. given): N-12-(4-pyridyl)ethyl]-N'-phenyl-piperazine, 83° (petr. ether); N-12-(2-pyridyl)ethyl]-N'-(2-pyridyl)piperazine, 66° (heptane); N-12-(4-pyridyl)ethyl]-N'-(2-pyridyl)piperazine, 82° (60% aqueous EtON); N-12-(2-pyridyl) ethyl]-N'-(2-chlorophenyl)piperazine, 66° (heptane); N-12-(2-pyridyl)ethyl]-N'-(2-chlorophenyl)piperazine, 66° (heptane); N-12-(2-pyridyl)ethyl]-N'-(2-depyridyl)ethyl]-N'-(2-methoxyphenyl)piperazine, 78° (hexane); N-12-(4-pyridyl)ethyl]-N'-(2-enboxyphenyl)piperazine, 66° (heptane); and N-12-(4-pyridyl)-ethyl]-N'-(2-enboxyphenyl)piperazine, 66° (heptane); and N-12-(4-pyridyl)-ethyl]-N'-(2-enboxyphenyl)piperazine, 66° (heptane); and N-12-(4-pyridyl)-ethyl]-N'-(2-py

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(CA INDEX NAME)

•x HCl

L9 ANSWER 13J OF 134
ACCESSION NUMBER:
DOCUMENT NUMBER:
S5;28013
ORIGINAL REPERENCE NO.:
S55;549013
TITLE:
INVENTOR(S):
JANUAGE:
JANUAGE:
JANUAGE:
Unavailable
Unavailable

LANGUAGE; PAMILY ACC. NUM. COUNT; PATENT INFORMATION;

PATENT NO. DATE KIND APPLICATION NO. BB 19600415

BE 589092 DE 1185615 GB 872352

DE 1185615

OB 872352

OB 1-(Y-Benzoylpropyl)-4-phenylpiperazine, m. 89-90* (6:5)

10-(Y-Benzoylpropyl)-4-phenylpiperazine, m. 89-90* (6:5)

100-POPH-HZO), was prepared by reaction of 7.5 g. chlorobutyrophenone and 13.4 g. 1-phenylpiperazine 6 hrs. at room temperature and 4 hrs. at 105-10*, after cooling, 200 g. Exto was added, the solution dried and evaporated, the residue dissolved in hot 4:1 70* ExoH-Et2O, and precipitated on cooling. The following 1-(arylalkyl)piperazines (1-arylalkyl-Y-phenzoylpropyl) were thus prepd (4-aryl group and m.p. given): 3-fluorophenyl, 80-2-1.6* (iao-Pr2O), 3-chlorophenyl, 80.2-1.6* (iao-Pr2O), 3-chlorophenyl, 80-2-1.6* (iao-Pr2O), 1-chlorophenyl, 80-2-1.6* (iao-Pr2O), 2-5-3.5* (iao-PrOH), 4-chlorophenyl, 80-2-1.6* (iao-Pr2O), 2-5-3.5* (iao-PrOH), 4-anisyl, 85-5-8.5* (iao-PrOH), 2-pyridyl, 63-4.8*, 6-methyl-2-pyridyl, 65.5*6.5*, 3-cyano-2-pyridyl, 45.5*7*, 5-methyl-2-pyridyl, 65.5*6.5*, 3-cyano-2-pyridyl, 45.5*7*, 4-methyl-2-pyridyl, 65.5*6.5*, 3-cyano-2-pyridyl, 45.5*7*, 4-methyl-2-pyridyl, 62.4*3.2*, 4.6*-dimethyl-2-pyrimidyl, 40(di-HCl salt), 209-12* (a:48) acctone-iao-PrOH-WoOH), 3-tolyl (di-HCl salt), 209-12* (a:48) acctone-iao-PrOH-WoOH), 3-tolyl (di-HCl salt), 190-2-1.6* (acctone-iao-PrOH), 4-fluorophenyl (HCl salt), 190-2-1.6* (acctone-iao-PrOH), 4-fluorophenyl (HCl salt), 190-2-1.6* (acctone-iao-PrOH), 3-chlorophenyl (HCl salt), 190-2-1.6* (acc

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210-13* (decomposition), 4-tolyl, 93-101* (iso-ProH-H2O); 2,5-xylyl (di-HCl salt), 237.5-9.5*, 2-anisyl, 67.5-8.5* (iso-PrO) (di-HCl salt), 237.5-9.5*, 2-anisyl, 67.5-8.5* (iso-PrO) (di-HCl salt), 237.5-9.5*, 4-anisyl, 104.6-5.5* (iso-PrO) (di-HCl salt), 29.2*, 4-anisyl, 104.6-5.5* (iso-PrO) (di-HCl salt), 29.2*, 4-anisyl, 104.6-5.5* (iso-PrO) (di-HCl salt), 29.2*, 3-tolyl, 15-20*, 11-19.15-

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analogs: 4-Ph, 93.5-5*, 4-(3-chlorophenyl), 84-5*;
4-(4-chlorophenyl), 132-3*, 4-(3-chlorophenyl), 93-4.5*,
1-(4-Anisyl) analogs: 4-Ph, 104.2-7.2*, 4-(2-chlorophenyl),
106.8-8.4*, 4-(3-chlyl), 115.2-15*, 4-(4-chlyl),
109.5-10.2*. 1-(4-Ethoxyphenyl) analogs: 4-Ph, 113-14.8*,
1-(2-Thienyl) analogs: 4-Ph, 91.4-3*, 4-(3-chlyl), 76-8*,
4-(4-chlyl), 113-14*, 4-(3-fluorophenyl), 78-9*;
4-(4-chlyr), 113-14*, 4-(3-fluorophenyl), 78-9*;
4-(4-chlorophenyl), 109.2-10*, 4-(2-chlorophenyl),
85.5-7.5*, 4-(3-chlorophenyl), 81.5*, 4-(2-chlorophenyl),
85.5-7.5*, 4-(3-chlorophenyl), 81.5*, 4-(3-cyridyl),
95.7*, 4-(2-pyrimidyl), 97.6*, 4-(3-cyridyl),
95.7*, 4-(3-chlorophenyl), 81.5*, 4-(3-pyridyl),
97.6*, 97.6*,

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61.5-4*, 2-(4-methylthiazolyl) (di-HCl salt), 186-8*, 2-(3.4-thiadiazolyl), 59-64*, 2-(5-methyl-1.3,4-thiadiazolyl), 59-64*, 2-(5-methyl-1.3,4-thiadiazolyl), 98-8100.2*, 1-(y-Benzoylpropyl)-4-(4-fluorophenyl)piperazine di-HCl salt, m. 214.5-17* (1:2:2 acetone-iso-PrOH-MeOH), was prepared by heating in a sealed tube 72 hrs. at 145-50* 9.1 g. y-chlorobutyrophenone, 23 g. 1-(4-fluorophenyl)piperazine, and 0.1 g. KI, extracting the cooled mixture with H20 and E20, and treating the dried organic layer with dry HCl; the base was liberated in aqueous alkaline ion, m. y-chlorobutyrophenone, 23 g. 1-(4-fluorophenyl)piperazine, and 0.1 g. Kr. extracting the cooled mixture with H20 and Et20, and treating the dried organic layer with dry HCl; the base was liberated in aqueous alkaline solution. m.

104-5.5° (EtOH). 1-[y-(4-Anisoyl)propyl)-4-phenylpiperazine, m. 126.6-7.5°, and the corresponding 4-fluorophenyl derivative, m. 121.2-1.8°, 1-[y-(2-thenoyl)propyl]-4-phenylpiperazine-2HCl, decomposed at 203-5°, and the 4-fluorophenyl analog, m. 82.5-3°, were similarly prepared 1-[y-(4-fluorobenzoyl)propyl]-4-(3-mechyl-2-pyridyl)piperazine-HCl, m. 212-20° (iso-Pr20), was prepared from 4.4 g. y-chloro-4-fluorobutyrophenone and 7.8 g. 1-(3-methyl-2-pyridyl)piperazine in 120° c. C686 in a sealed tube at 125° 24 hrs. The following deriva, were similarly prepared 1-[y-(4-fluorobenzoyl)propyl] compound (4-aryl and m.p. given): 4-methyl-2-pyridyl, 79.5-83°, event-2-[y-(4-fl)], 71.5-3.5°; 6-fl. 2-[y-(4-fluorobenzoyl)propyl] compound (4-aryl and m.p. given): 4-methyl-2-pyridyl, 79.5-83°, event-2-[y-(4-fl)], 71.5-3.5°; 6-fl. 2-[y-(2-flenoyl)propyl] compound (4-aryl and m.p. given): 4-methyl-2-pyridyl, 79.5-83°, event-2-[y-(4-fl)], 71.5-3.5°; 6-fl. 2-[y-(2-flenoyl)propyl] compound: 6-chloro-3-pyridazinyl, 176-6.8°. 1-[y-(2-flenoyl)propyl] compound: 6-chloro-3-pyridazinyl, 176-6.8°. 1-[y-(2-flenoyl)propyl] compound: 6-chloro-3-pyridazinyl, 18.8-8; 6-methoxy-3-pyridazinyl, 98.8-9.8°. 1-[y-(8-mixoyl)propyl] compound: 6-chloro-3-pyridazinyl, 18.6-6.8°. 1-[y-(2-flenoyl)propyl] compound: 6-chloro-3-pyridazinyl, 176-6.8°. 1-[y-(2-flenoyl)propyl] compound: 6-chloro-3-pyridazinyl, 18.6-6.8°. 1-[y-(2-flenoyl)propyl] compound: 6-chloro-3-pyridazinyl, 176-6.8°. 1-[y-(2-fleno residue was treated with aqueous arkail solution, extracted with at 20, and ted with dry HCL. Following 1-phenyl-4-(R-substituted-piperazinyl)-1-butanols were similarly prepared (R given), 4-(3-tolyl), 83.5-4.5*, 4-(4-tolyl), 90.2-1.8*, 4-(3-fluorophenyl), 70-1.5*, 4-(4-chlorophenyl), 105-6*, 4-(3-chlorophenyl), 99-9.9*, 4-(4-chlorophenyl), 105-6*, 4-(4-anisyl), 91.5-2.6*, 4-(4-methyl-2-pyrimidyl), 78.5-80*, 4-(2-pyridyl), 113.8-14.8*, 1-(4-Tolyl) nanlogs: 4-Ph, 104-5.6*, 4-(4-tolyl), 105-6*, 4-(4-anisyl), 84-5*, 4-(2-pyridyl), 119.2-19.8*, 1-(5-Xylyl) nanlogs: 4-Ph, 92.8-3.8*, 1-(4-Fluorophenyl) analogs: 4-Ph, 85.5-7.5* (HCl salt m. 143.5-6.5*), 4-(3-chlorophenyl), 100-1.8*, 4-(4-chlorophenyl), 112.5-13.8*, 4-(4-a-chlorophenyl), 93-5*, 4-(2-pyridyl), 104-5*, (4-Chlorophenyl)

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2946-76-1 CAPLUS
Piperazine, 2-methyl-1-phenyl- (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME)

102758-21-4 CAPLUS
Butyrophenone, 4'-methoxy-4-(3-methyl-4-phenyl-1-piperazinyl)- (6CI) (CA

108983-89-7 CAPLUS 1-Butanone, 4-(3-methyl-4-phenyl-1-piperazinyl)-1-(2-thienyl)-, dihydrochloride (66T) (CA INDEX NAME)

●2 HCl

110531-91-4 CAPLUS Butyrophenone, 4-(3-methyl-4-phenyl-1-piperazinyl)-, dihydrochloride (6CI) (CA INDEX RAME)

● 2 HC1

L9 ANSWER 134 OF 134
ACCESSION NUMBER: 1955;36037 CAPLUS
ODCUMENT NUMBER: 49:56037 CAPLUS
ORIGINAL REFERENCE NO: 49:6967e-i,6968a-b
Derivatives of piperazine. XXIV. Synthesis of 1-arylpiperazines and amino alcohol derivatives
OURCE: 50URCE: 50URC

NEC: Journal of the American Chemical Society (1998)
1, 76, 1833-5
CODEN: JACSAT: ISSN: 0002-7863
UMENT TYPE: Unavailable
of. A. 48, 7615a. A series of 8 1-arylpiperarines (I) have been prepared
of. A. 49, 7615a. A series of 8 1-arylpiperarines (I) have been prepared
of. A. 49, 7615a. A series of 8 1-arylpiperarines (I) have been prepared
of. A. 49, 7615a. A series of 8 1-arylpiperarines (I) have been prepared
of. A series of the legencyported by the reaction with ethylene oxide (III).
3 bethosypropylene oxide (III). Ac20. Bscl. and PINCS. p-CLOSHANIZ (220.6
3 and 210.3 g. (MOCHIZCI212NH carefully neutralized with 175 cc. 374 HCl
of. 1.19), the mixture heated with continuous removal of the N20.
neutralized with 180 g. NaOH in 300 cc. H20. and the resulting oily layer
distilled gave 205 g. (52.3*) 1-(4-chlorophenyl)piperazine (IV). b5
155.7-7.2°, m. 71.5-3.5°. Similarly were prepared the
following I 11-aryl and other aubstituents if present. * yield, b.p./mm.,
d20. and nD25 given): p-MecGH4 (V). 25.5, 150.9-2.5°/10, -, -,
m-MecGH4 (VI). 22.9, 154.2-6.2°/10, 1.0383, 1.5744, 0-MecGH4 (VII),
26.5, 136.5-7.5°/10, 1.0261, 1.5600; m-ClCGH4 (VIII), 38.4,
157.2-8.2°/5, 1.1897, 1.5985, 0-ClCGH4 (IXI), 32.7,
133.9-4.9°/5, 1.1763, 1.5794; 1-Ph, 2-Me (X), 30.7,
138.5-4.0.5°/10, 1.0317, 1.5635. IV shaken with a slight excess of
E2Cl in the presence of, excess 10% aqueous NaOH and the product recrystd. from
EEOH gave the 4-Bz derivative of IV, m. 128.0-9.5°, Similarly were
prepared the 4-Bz derivative of IV, m., 128.0-9.5°, Similarly were
prepared the 4-Bz derivative of IV, m., 128.0-9.5°, Similarly were
prepared the 4-Bz derivative of IV, m., 128.0-9.5°, Similarly were
prepared the 4-Bz derivative of IV, m., 128.0-9.5°, Similarly were
prepared the 4-Bz derivative of IV, m., 128.0-9.5°, Similarly were
prepared the 4-Bz derivative of IV, m., 128.0-9.5°, Similarly were
prepared the 4-Bz derivative of IV, m., 128.0-9.5°, Similarly were prepared the
4-Ac derivative of IV, m., 99.5-10.5° (from EEOH
4-Ac derivative of IV, m., 99.5-DOCUMENT TYPE:

<12/04/2007>

Brich Leese

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(PILE 'HOME' ENTERED AT 15:47:08 ON 18 SEP 2007)

FILE 'REGISTRY' ENTERED AT 15:47:13 ON 18 SEP 2007 STRUCTURE UPLOADED 0 S L1 FULL

FILE 'REGISTRY' ENTERED AT 16:01:11 ON 18 SEP 2007 STRUCTURE UPLOADED 4 S LJ FULL L3 L4

FILE 'CAPLUS' ENTERED AT 16:01:46 ON 18 SEP 2007 1 S L4 FULL

FILE 'REGISTRY' ENTERED AT 16:07:59 ON 18 SEP 2007 STRUCTURE UPLOADED 1347 S L6 FULL L6 L7

FILE 'CAPLUS' ENTERED AT 16:08:40 ON 18 SEP 2007 201 S L7 FULL 134 S L8 AND PY<2003

10/513699

4318-46-1 CAPLUS 1-Piperazinecarboxanilide, 3-methyl-4-phenylthio- (7CI, 8CI) (CA INDEX NAME)

a56839-29-7 CAPLUS Piperazine, 4-acetyl-2-methyl-1-phenyl- (5CI) (CA INDEX NAME)

<12/04/2007>